

Service Manual

and Technical Guide

PERSONAL FACSIMILE

KX-F7B

Simplified

Please use this manual together with the Service manual for model No. KX-F76, order No. KM49209291C3.
This Service Manual indicates the main differences between; Original KX-F76 and KX-F7B.

■ SPECIFICATIONS (Change of original page 5)

4. POWER SUPPLY SECTION

1	Input power supply	AC 110 V \pm 10%	60 Hz
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(Model KX-F76)



Changed

1	Input power supply	AC 220–240 V	50/60 Hz
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(Model KX-F7B)

Panasonic

■ REPLACEMENT PARTS LIST (Change of original pages 87-95)

REPLACEMENT PARTS LIST				Ref. No.	Part No.	Part Name & Description	Pcs
Notes:							
1. RTL (Retention Time Limited)							
The marking (RTL) indicates that the Retention Time is limited for this item.							
After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.							
After the end of this period, the assembly will no longer be available.							
2. Important safety notice							
Components identified by the Δ mark special characteristics important for safety.							
When replacing any of these components, use only manufacturer's specified parts.							
3. The S mark indicates service standard parts and may differ from production parts.							
4. RESISTORS & CAPACITORS							
Unless otherwise specified,							
All resistors are in ohms (Ω) K=1000 Ω , M=1000K Ω							
All capacitors are in MICRO FARADS (μ F) P= μ F							
*Type &Wattage of Resistor							
Type							
ERC: Solid	ERX: Metal Film	PQ4R: Carbon					
ERD: Carbon	ERG: Metal Oxide	ERS: Fusible Resistor					
PQRD: Chip	ER0: Metal Film	ERF: Cement Resistor					
Wattage							
10, 16: 1/8W	14, 25: 1/4W	12: 1/2W	1: 1W 2: 2W 3: 3W				
Type							
ECFD: Semi-Conductor	ECCD, ECKD, ECBT, PQCBC: Ceramic						
ECQS: Styrol	ECQE, ECQV, ECQG: Polyester						
PQCUV: Chip	ECEA, ECSZ: Electrolytic						
ECQMS: Mica	ECQP: Polypropylene						
Voltage							
ECQ Type	ECQG Type	ECSZ Type	Others				
1H: 50V	05: 50V	0F: 3.15V	0J: 6.3V 1V: 35V				
2A: 100V	1: 100V	1A: 10V	1A: 10V 50, 1H: 50V				
2E: 250V	2: 200V	1V: 35V	1C: 16V 1J: 63V				
2H: 500V		0J: 6.3V	1E, 25: 25V 2A: 100V				
Ref. No.	Part No.	Part Name & Description		Pcs			
CABINET, MECHANICAL AND ELECTRICAL PARTS							
1	PQKE114W	DOCUMENT TRAY		1			
2	PQYM1F76XTW	UPPER CABINET ASS'Y		1			
2-1	PQHR9711Y	COVER, GUIDE		1			
2-2	PQHR9710Z	GUIDE-R		1			
2-3	PQHR9709Z	GUIDE-L		1			
2-4	PQDG5078Z	GEAR		1			
3	PQUV126W	COVER, OPERATION PANEL		1			
4	PQUP10098Z	FLEXIBLE CABLE		1			
5	PQHR9729Y	PLASTIC PARTS, BUTTON		1			
6	PQBCX250Z	BUTTON, FUNCTION		1			
7	PQBC334T	BUTTON, START		1			
8	PQBC335T	BUTTON, STOP		1			
9	PQYGF76XTW	OPERATION PANEL ASS'Y		1			
10	PQHM174Z	ARM-R		1			
11	PQHM175Z	ARM-L		1			
12	PQUS10002Y	SPRING, ARM		1			
13	PQBCX10004Z	BUTTON, DIAL		1			
14	PQBCX10007Z	BUTTON, PAUSE/REDIAL		1			
15	PQBC10019Z	BUTTON, MONITOR		1			
16	PQGP10006Z	COVER, LED		3			
17	PQK10004Y	ORNAMENT		1			
18	PQNW368Y	WASHER		1			
19	PQQT10219Z	CAUTION LABEL-A		1			
30	PQUV125Y	COVER, RECORDING PAPER		1			
31	PQMD2024X	ANGLE		1			
32	PQDN32Z	ROLLER, RECORDING PAPER FEED		1			
33	PQHR9718Z	SPACER, RECORDING PAPER ROLLER		2			
34	PQDG5075Z	GEAR		1			
35	PQMD10004Z	ANGLE, BOTTOM		1			
36	PQYFF76XTW	LOWER CABINET ASS'Y		1			
37	PQWAF7BX	POWER CORD ASS'Y		1			
38	PQYTKXPW1	KNOB, RECORDING PAPER COVER OPEN		1			
39	PQBD183Y	KNOB, FRONT LID OPEN		1			
40	PQGP155Z	PANEL, RECORDING PAPER		1			
41	PQGT10278Z	NAME PLATE		1			
42	PQQT10218Z	CAUTION LABEL-B		1			
43	PQHP506Z	CARD, TEL.		1			
44	PQHR518Z	TRANSPARENT PLATE, TEL. CARD		1			
45	PQASSP05Y	SPEAKER		1			
46	PQJE10009Z	FLAT CABLE, 9P		1			
47	PQJE10010Z	FLAT CABLE, 13P		1			
48	PQJS2L103Z	CONNECTOR, 2P		1			
49	PQHR10044Z	COVER		1			
50	PQMH10006Z	ANGLE		1			
51	PQBD10005Z	KNOB, VOLUME		1			
53	PQBH10005Z	KNOB, HOOK		1			
54	PQKM10010Z	HANDSET CRADLE, UPPER		1			
55	PQYM2F76XTW	HANDSET CRADLE ASS'Y, LOWER		1			
60	PQZU1KXPW1	METAL PLATE, RECORDING PAPER COVER LOCK		1			
61	PQZLKXPW1	LEVER, SENSOR		1			
62	PQJS9M44Y	CONNECTOR, 9P		1			
63	PQJS10M48Z	CONNECTOR, 10P		1			
64	PQWEKXPW1	THERMAL HEAD ASS'Y		1			
65	PQUS299Z	SPRING, THERMAL HEAD		1			
66	PQLB1E1	CORE		3			
67	PQZU2KXPW1	ANGLE, RECORDING COVER LOCK		1			
68	PQZEKXPW1	GEAR CHASSIS ASS'Y		1			
69	PQJS12R24Y	CONNECTOR, 12P		1			
70	PQJS4M33Z	CONNECTOR, 4P		1			
71	XUC25FY	RETAINING RING		1			
72	PQUS10004Z	SPRING		1			
73	PQMX10003Z	INSULATOR SHEET		1			
74	PQJE10008Z	FLAT CABLE, 18P		1			
75	PQNP10001Z	WASHER		1			
76	PQHR10004Z	SPACER, IMAGE BOARD		1			
77	PQHR10006Z	BAND, LEAD WIRE		1			
78	PQJE10011Z	FLAT CABLE, 8P		1			
79	PQJE10004Z	FLAT CABLE, 10P		2			
80	PQJS06R23Z	CONNECTOR, 6P		1			
CCD UNIT PARTS							
300	PQSGX017Y	CCD UNIT ASS'Y		1			
300-1	PQDG5074Z	GEAR		1			
300-2	PQDN31Z	ROLLER, DOCUMENT FEED		1			
300-3	PQHR9713Z	COVER		1			
300-4	PQHR10040Z	SPACER, DOCUMENT FEED ROLLER		2			
300-5	PQHR9719Z	LEVER, DOCUMENT DETECT		2			
300-6	PQUS315Z	SPRING, SENSOR LEVER		2			
300-7	PQUS299Z	SPRING		1			
300-8	PQOG4Z	GLASS		1			
ACCESSORIES AND PACKING MATERIALS							
A1	PQX2PDAG01Y	HANDSET		1			
A2	PQJA212N	HANDSET CORD		1			
A3	PQJA59V	TEL. CORD		1			
A4	PQHP419Z	RECORDING PAPER		1			
A5	PQGX10121Z	INSTRUCTION BOOK (CHINESE)		1			
A6	PQGW10127Z	MARK SHEET-1 (CHINESE)		1			
A7	PQGW10128Z	MARK SHEET-2 (CHINESE)		1			
A8	PQGW10129Z	MARK SHEET-3 (CHINESE)		1			
A9	PQGW10130Z	MARK SHEET-4 (CHINESE)		1			
A10	XZB30X25A04	PROTECTION COVER (ACCESSORIES)		1			
A11	XZB25X34A04	PROTECTION COVER (DOCUMENTS)		1			
A12	PQHR9723Z	PARTING PLATE-A		1			
A13	PQHR9724Z	PARTING PLATE-B		1			
A14	PQGX10123Z	INSTRUCTION BOOK (ENGLISH)		1			
A15	PQGW10016Z	MARK SHEET-1 (ENGLISH)		1			
A16	PQGW10017Z	MARK SHEET-2 (ENGLISH)		1			
A17	PQGW10133Z	MARK SHEET-3 (ENGLISH)		1			
A18	PQGW10019Z	MARK SHEET-4 (ENGLISH)		1			
P1	PQPK10150Z	GIFT BOX		1			
P2	PQPN935Z	HANDLE		1			
P3	PQPN10038Z	CUSHION-L		1			
P4	PQPN10039Z	CUSHION-R		1			
P5	PQPN10065Z	ACCESSORY BOX		1			
P6	PQPH79Z	PROTECTION COVER (UNIT)		1			

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
MAIN BOARD PARTS							
PCB1	PQWP1F7BX	MAIN BOARD ASS'Y (RTL)	1	SW1	PQSS3B10W	(SWITCHES) SWITCH, RINGER	1
		(ICs)		SW2	PQSS2A27W	SWITCH, PROGRAM	1
IC1	PQVIR96MFXS	IC	1	SW3	PQSS2A27W	SWITCH, PAPER SAVE	1
IC2	PQVIZ8400L8V	IC	1			(TRANSFORMERS)	
IC3	PQWIF7BX	IC	1	T1	ETA14Y85AY	COMMUNICATION TRANSFORMER	1
IC4, 5	PQVICX5864MC	IC	2	T2	PQLT8F5A	DTMF TRANSFORMER	1
IC6	PQVIE58R55F	IC	1			(CRYSTAL OSCILLATORS & CERAMIC FILTER)	
IC7	PQVIRIP5C62	IC	1	X1	PQVCJ2400N9Z	CRYSTAL OSCILLATOR	1
IC8	PQVIM5195BL	IC	1	X2	PQVCJ1600N9Z	CRYSTAL OSCILLATOR	1
IC9	PQVITC4053BF	IC	1	X3	PQVCL3276N6Z	CRYSTAL OSCILLATOR	1
IC10, 11, 12	PQVINJM082BM	IC	3	X4	PQVBT4.19G2	CERAMIC FILTER	1
IC14	PQVIBA12003	IC	1			(CAPACITORS)	
IC15	PQVI672191F	IC	1	C1	ECQE2E224JZ	0.22	1
IC16	PQVINJM2901M	IC	1	C2	ECEA1HN3R3S	3.3	1
IC17	PQVIMT3274AE	IC	1	C3	ECEA1HU3R3	3.3	1
IC19	PQVIPD7HU04S	IC	1	C4	ECEA1HU100	10	1
IC20	PQVIPD7H245G	IC	1	C5	PQCUV1C683MD	0.068	1
IC21-26	PQVINJM4558M	IC	6	C6	PQCUV1H151JC	150P	1
IC27	PQVITC4053BF	IC	1	C9	PQCUV1H221JC	220P	1
		(TRANSISTORS)		C10	PQCUV1E104MD	0.1	1
Q1	2SB1322	TRANSISTOR(SI)	1	C11	PQCUV1H101JC	100P	1
Q2, 21	2SB1218A	TRANSISTOR(SI)	2	C12	PQCUV1E104MD	0.1	1
Q22, 23, 24	PQVTDTC143E	TRANSISTOR(SI)	3	C13	PQCUV1E104MD	0.1	1
Q25	2SB1218A	TRANSISTOR(SI)	1	C14	PQCUV1H151JC	150P	1
Q26-31	2SD1819A	TRANSISTOR(SI)	6	C15	PQCUV1E104MD	0.1	1
Q32, 33	2SB1322	TRANSISTOR(SI)	2	C16	PQCUV1H101JC	100P	1
Q34, 36-39	PQVTDTC143E	TRANSISTOR(SI)	5				
Q40	2SB1322	TRANSISTOR(SI)	1	C21	PQCUV1E224MD	0.22	1
Q42, 43	2SD1994A	TRANSISTOR(SI)	2	C22	PQCUV1H331JC	330P	1
Q50	PQVTDTC143E	TRANSISTOR(SI)	1	C23	PQCUV1E104MD	0.1	1
Q50A	2SC2235	TRANSISTOR(SI)	1	C24	PQCUV1H101JC	100P	1
Q51	PQVTDTA114YU	TRANSISTOR(SI)	1	C25	PQCUV1H102J	0.001	1
Q53, 54	2SD1819A	TRANSISTOR(SI)	2	C26	ECEA1HN3R3S	3.3	1
		(DIODES)		C51	PQCUV1E104MD	0.1	1
D1	PQVDSSV3SS	DIODE(SI)	1	C52	PQCUV1H103KB	0.01	1
D2	RLS71	DIODE(SI)	1	C53	PQCUV1H103KB	0.01	1
D3	PQVDHZS2B1	DIODE(SI)	1	C54	PQCUV1E104MD	0.1	1
D5, 6	RLS71	DIODE(SI)	2	C56	PQCUV1E104MD	0.1	1
D8	PQVDHZS2B1	DIODE(SI)	1	C57	PQCUV1E104MD	0.1	1
				C58	PQCUV1E104MD	0.1	1
D21	MA700A	DIODE(SI)	1	C59	PQCUV1E104MD	0.1	1
D22	MA4051	DIODE(SI)	1				
D23	RLS71	DIODE(SI)	1	C60	PQCUV1E104MD	0.1	1
D24	PQVDHZS3A1	DIODE(SI)	1	C61	PQCUV1H120JC	12P	1
D25-29	RLS71	DIODE(SI)	5	C62	PQCUV1H120JC	12P	1
D30	1SS147	DIODE(SI)	1	C63	PQCUV1H180JC	18P	1
D31	MA7200	DIODE(SI)	1	C64	PQCUV1H180JC	18P	1
D34-37	RLS71	DIODE(SI)	4	C65	PQCUV1E104MD	0.1	1
D38	MA723	DIODE(SI)	1	C66	ECEA1HU4R7	4.7	1
				C67	ECUV1H334ZF	0.33	S 1
D41	PQVDHZS2B1	DIODE(SI)	1	C68	PQCUV1E104MD	0.1	1
D43	RLS71	DIODE(SI)	1	C69	PQCUV1E104MD	0.1	1
D44, 45	MA723	DIODE(SI)	2				
				C70	ECUV1H334ZF	0.33	S 1
D51	PQVDS1YB40F1	DIODE(SI)	1	C72	ECEB0JU220	22	1
				C73	ECUV1H334ZF	0.33	S 1
		(PHOTO ELECTRIC TRANSDUCERS)		C74	PQCUV1H102J	0.001	1
PC1	PQVIPC814K	PHOTO COUPLER	1	C75	PQCUV1E104MD	0.1	1
PC2, 3	PQVIPC817CD	PHOTO COUPLER	2	C76	PQCUV1E104MD	0.1	1
				C77	PQCUV1H102J	0.001	1
		(RELAYS)		C78	PQCUV1H331JC	330P	1
RLY1	PQSL76Z	RELAY	1	C79	PQCUV1E104MD	0.1	1
RLY2	PQSL112Z	RELAY	1				
				C80	PQCUV1E104MD	0.1	1
				C81	PQCUV1H103KB	0.01	1
				C82	PQCUV1H103KB	0.01	1

Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Value	Pcs
C83	PQCUV1E104MD	0.1	1	R1	ERDS1TJ473	(RESISTORS)	1
C85	PQCUV1H330JC	33P	1	R3	ERDS2TJ120	47K	1
C86	PQCUV1H180JC	18P	1	R4	PQ4R10XJ103	10K	1
C87	PQCUV1E473MD	0.047	1	R5	PQ4R10XJ103	10K	1
C88	PQCUV1E104MD	0.1	1	R6	PQ4R10XJ683	68K	1
C89	ECEA1EU470	47	S 1	R7	PQ4R10XJ561	560	1
C90	PQCUV1E104MD	0.1	1	R8	PQ4R10XJ682	6.8K	1
C91	PQCUV1E104MD	0.1	1	R9	ERDS2TJ560	56	1
C92	PQCUV1E104MD	0.1	1	R10	PQ4R10XJ103	10K	1
C93	PQCUV1E104MD	0.1	1	R11	PQ4R10XJ473	47K	1
C94	PQCUV1H103KB	0.01	1	R12	PQ4R10XJ103	10K	1
C95	PQCUV1E104MD	0.1	1	R13	PQ4R10XJ104	100K	1
C96	PQCUV1E104MD	0.1	1	R14	PQ4R10XJ124	120K	1
C97	PQCUV1E104MD	0.1	1	R15	PQ4R10XJ104	100K	1
C98	PQCUV1E104MD	0.1	1	R16	PQ4R10XJ104	100K	1
C99	PQCUV1E104MD	0.1	1	R17	PQ4R10XJ104	100K	1
C100	PQCUV1H101JC	100P	1	R18	PQ4R10XJ124	120K	1
C101	PQCUV1E104MD	0.1	1	R19	PQ4R10XJ122	1.2K	1
C102	PQCUV1E104MD	0.1	1	R20	PQ4R10XJ223	22K	1
C103	PQCUV1H101JC	100P	1	R21	PQ4R10XJ473	47K	1
C104	PQCUV1H103KB	0.01	1	R22	PQ4R10XJ564	560K	1
C105	ECEA1EU101	100	S 1	R23	PQ4R10XJ473	47K	1
C106	PQCUV1H682KB	0.0068	1	R24	PQ4R10XJ394	390K	1
C107	PQCUV1E104MD	0.1	1	R25	PQ4R10XJ473	47K	1
C108	PQCUV1E104MD	0.1	1	R26	PQ4R10XJ564	560K	1
C109	PQCUV1E104MD	0.1	1	R27	PQ4R10XJ223	22K	1
C111, 115, 116	PQCUV1E104MD	0.1	3	R29	PQ4R10XJ682	6.8K	1
C118	ECEA1VU221	220	1	R30	PQ4R10XJ684	680K	1
C119	ECEA1EU101	100	S 1	R31	PQ4R10XJ563	56K	1
C120	ECEA1AU221	220	S 1	R32	PQ4R10XJ104	100K	1
C121	ECEA1EU101	100	S 1	R33	PQ4R10XJ222	2.2K	1
C122	PQCUV1E104MD	0.1	1	R34	PQ4R10XJ184	180K	1
C123	PQCUV1E104MD	0.1	1	R35	PQ4R10XJ563	56K	1
C124	PQCUV1E104MD	0.1	1	R36	PQ4R10XJ563	56K	1
C125, 127	PQCUV1E104MD	0.1	2	R37	PQ4R10XJ473	47K	1
C131	PQCUV1E224MD	0.22	1	R43,	PQ4R10XJ104	100K	1
C132	PQCUV1C683MD	0.068	1	R44, 45, 46	PQ4R10XJ103	10K	3
C136	PQCUV1E104MD	0.1	1	R51	PQ4R10XJ103	10K	1
C137	PQCUV1E104MD	0.1	1	R52	PQ4R10XJ475	4.7M	1
C138	PQCUV1E104MD	0.1	1	R53	PQ4R10XJ331	330	1
C139	PQCUV1E104MD	0.1	1	R55	PQ4R10XJ000	0	1
C140	PQCUV1E104MD	0.1	1	R56	PQ4R10XJ222	2.2K	1
C155	PQCUV1H681JC	680P	1	R57	PQ4R10XJ472	4.7K	1
C156	PQCUV1E224MD	0.22	1	R58	PQ4R10XJ472	4.7K	1
C157	PQCUV1E104MD	0.1	1	R59	PQ4R10XJ103	10K	1
C158	PQCUV1E104MD	0.1	1	R60	PQ4R10XJ333	33K	1
C159	PQCUV1E104MD	0.1	1	R61	PQ4R10XJ103	10K	1
C162	PQCUV1H103KB	0.01	1	R62	PQ4R10XJ473	47K	1
C163	PQCUV1E104MD	0.1	1	R63	ERD25TJ120	12	1
C164	PQCUV1E104MD	0.1	1	R64	ER016CKF8662	86.6K	1
C165	PQCUV1H150JC	15P	1	R65	PQ4R10XJ563	56K	1
C166	PQCUV1E104MD	0.1	1	R66	PQ4R10XJ275	2.7M	1
C167	PQCUV1E473MD	0.047	1	R67	ER016CKF8662	86.6K	1
C172	PQCUV1H103KB	0.01	1	R68	PQ4R10XJ272	2.7K	1
C177	PQCUV1H332KB	0.0033	1	R69	PQ4R10XJ683	68K	1
C178	PQCUV1H103KB	0.01	1	R70	ER016CKF1002	10K	1
C200	PQCUV1E104MD	0.1	1	R71	ER016CKF3652	36.5K	1
C600	ECEA1HU3R3	3.3	1	R72	PQ4R10XJ332	3.3K	1
C601	ECEA1HU100	10	1	R73	PQ4R10XJ332	3.3K	1
C1001	ECSTCM0JD686	68	1	R74	ERD25TJ271	270	1
				R75	PQ4R10XJ222	2.2K	1
				R76	PQ4R10XJ562	5.6K	1
				R77	PQ4R10XJ222	2.2K	1
				R78	PQ4R10XJ472	4.7K	1
				R79	PQ4R10XJ154	150K	1
				R80	PQ4R10XJ152	1.5K	1
				R81	PQ4R10XJ000	0	1
				R82	PQ4R10XJ223	22K	1

Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
R83	PQ4R10XJ682	6.8K	1	R164	PQ4R10XJ101	100	1
R84	PQ4R10XJ471	470	1	R165	PQ4R10XJ682	6.8K	1
R85	PQ4R10XJ562	5.6K	1	R166	PQ4R10XJ103	10K	1
R86	PQ4R10XJ472	4.7K	1	R167	PQ4R10XJ000	0	1
R87	PQ4R10XJ103	10K	1				
R88	PQ4R10XJ332	3.3K	1	R171	PQ4R10XJ473	47K	1
R89	PQ4R10XJ182	1.8K	1	R172	PQ4R10XJ000	0	1
				R174	PQ4R10XJ473	47K	1
R90	PQ4R10XJ223	22K	1	R179	PQ4R10XJ331	330	1
R91	PQ4R10XJ331	330	1				
R92	PQ4R10XJ331	330	1	R180	PQ4R10XJ331	330	1
R93	PQ4R10XJ331	330	1	R181	PQ4R10XJ331	330	1
R94	PQ4R10XJ331	330	1	R182	PQ4R10XJ562	5.6K	1
R95	PQ4R10XJ103	10K	1	R183	PQ4R10XJ153	15K	1
R96	PQ4R10XJ332	3.3K	1	R185	PQ4R10XJ122	1.2K	1
R97	PQ4R10XJ332	3.3K	1	R186	PQ4R10XJ471	470	1
R98	ERDS1TJ122	1.2K	1	R187	PQ4R10XJ471	470	1
R99	PQ4R10XJ222	2.2K	1	R189	ERDS1TJ330	33	1
R100	ERD25TJ331	330	1	R190	PQ4R18XJ152	1.5K	1
R101	PQ4R10XJ332	3.3K	1	R191	PQ4R18XJ473	47K	1
R102	PQ4R10XJ682	6.8K	1	R192	PQ4R10XJ564	560K	1
R103	PQ4R10XJ472	4.7K	1	R194	PQ4R10XJ331	330	1
R104	PQ4R10XJ103	10K	1	R197	PQ4R10XJ473	47K	1
R105	PQ4R10XJ101	100	1	R198	PQ4R10XJ104	100K	1
R106	PQ4R10XJ222	2.2K	1	R199	PQ4R10XJ331	330	1
R107	PQ4R10XJ182	1.8K	1				
R108	ER016CKF1201	1.2K	1	R201	PQ4R10XJ331	330	1
R109	PQ4R10XJ223	22K	1	R202	PQ4R10XJ331	330	1
				R203	PQ4R10XJ331	330	1
R110	PQ4R10XJ103	10K	1	R206	PQ4R10XJ223	22K	1
R111	PQ4R10XJ103	10K	1	R207	PQ4R10XJ102	1K	1
R112	ER016CKF1801	1.8K	1	R208	PQ4R10XJ334	330K	1
R113	PQ4R10XJ102	1K	1	R209	PQ4R10XJ222	2.2K	1
R114	PQ4R10XJ101	100	1				
R115	PQ4R10XJ151	150	1	R212	PQ4R10XJ103	10K	1
R116	PQ4R10XJ272	2.7K	1	R213	PQ4R10XJ331	330	1
R117	PQ4R10XJ272	2.7K	1	R214	PQ4R18XJ000	0	1
R118	ER016CKF1501	1.5K	1	R215	PQ4R10XJ471	470	1
R119	PQ4R10XJ222	2.2K	1	R216	PQLQR1ET	COIL	1
R120	ERDS1TJ222	2.2K	1	R221	PQ4R10XJ564	560K	1
R121	PQ4R10XJ102	1K	1	R222	PQ4R10XJ272	2.7K	1
R122	ERDS1TJ222	2.2K	1	R223	PQ4R10XJ183	18K	1
R123	PQ4R10XJ103	10K	1	R225	PQ4R18XJ000	0	1
R124	PQ4R10XJ103	10K	1				
R125	PQ4R10XJ681	680	1	R236	PQ4R10XJ103	10K	1
R126	PQ4R10XJ103	10K	1	R237	PQ4R10XJ330	33	1
R127	PQ4R10XJ103	10K	1	R238	PQ4R10XJ330	33	1
				R239	PQ4R10XJ471	470	1
R131	PQ4R10XJ473	47K	1				
R132	PQ4R10XJ473	47K	1	R240	PQ4R10XJ472	4.7K	1
R133	PQ4R10XJ473	47K	1	R241	PQ4R10XJ473	47K	1
R134	PQ4R10XJ473	47K	1	R242	PQ4R10XJ564	560K	1
R135	PQ4R10XJ563	56K	1				
R136	PQ4R10XJ682	6.8K	1	R500	PQ4R10XJ123	12K	1
R137	PQ4R10XJ563	56K	1	R501	PQ4R10XJ562	5.6K	1
R138	PQ4R10XJ563	56K	1				
R139	PQ4R10XJ682	6.8K	1				
						(BATTERY & CONNECTORS)	
R140	PQ4R10XJ331	330	1	BA1	BR2032/1HF1	LITHIUM BATTERY	1
R141	PQ4R10XJ331	330	1				
R142	PQ4R10XJ682	6.8K	1	CN1	PQJP13A12Z	CONNECTOR, 13P	1
R143	PQ4R10XJ563	56K	1	CN2	PQJS23X59Z	CONNECTOR, 23P	1
R144	PQ4R10XJ563	56K	1	CN3	PQJP8G100Z	CONNECTOR, 8P	1
R145	PQ4R10XJ682	6.8K	1	CN4	PQJP4G91Z	CONNECTOR, 4P	1
				CN5	PQJP2D121Z	CONNECTOR, 2P	1
R151	PQ4R10XJ683	68K	1	CN6	PQJP6D121Z	CONNECTOR, 6P	1
R154	PQ4R10XJ473	47K	1	CN7	PQJP9G30Z	CONNECTOR, 9P	1
R157	PQ4R10XJ473	47K	1	CN8	PQJP7G90Z	CONNECTOR, 7P	1
R158	PQ4R10XJ473	47K	1	CN9	PQJP7G100Z	CONNECTOR, 7P	1
R159	PQ4R10XJ473	47K	1	CN10	PQJP2G100Z	CONNECTOR, 2P	1
				CN11	PQJS18R02Z	CONNECTOR, 18P	1
R160	PQ4R10XJ681	680	1				
R161	PQ4R10XJ121	120	1	CN501, 502	PQJS10A01Z	CONNECTOR, 10P	2
R162	PQ4R10XJ271	270	1				
R163	PQ4R10XJ181	180	1				

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
OPERATION BOARD PARTS				Q102	PQVTBB1A4A	TRANSISTOR(SI)	1
PCB2	PQWP2F76XTW	OPERATION BOARD ASS'Y (RTL)	1	Q103	2SD1994A	TRANSISTOR(SI)	1
		(DIODES)		Q105	2SB1218A	TRANSISTOR(SI)	1
LED1	PQVDGL1D11E	LED	1	Q106, 107	2SD1819A	TRANSISTOR(SI)	S 2
LED2	PQVDGL1E11C	LED	1	Q108	PQVTBB1A4A	TRANSISTOR(SI)	1
LED3	LN376GCPX	LED	1	Q109	PQVTDTA114YU	TRANSISTOR(SI)	1
LED4	LN876RCPX	LED	1	Q110, 111	2SD1819A	TRANSISTOR(SI)	S 2
LED5	PQVDGL1D11E	LED	1	Q201	2SD1994A	TRANSISTOR(SI)	1
		(PHOTO ELECTRIC TRANSDUCERS)				(DIODES)	
PC201, 203, 301, 303	PQVIPS4506	SENSOR, S	4	D1, 2	1SS131	DIODE(SI)	2
		(SWITCHES)		D3	RLS71	DIODE(SI)	1
SW1	EVQ22405K	SWITCH,	1	D4	1SS131	DIODE(SI)	1
SW2	EVQ22405K	SWITCH,	1	D5, 10	RLS71	DIODE(SI)	2
SW3	EVQ22405K	SWITCH,	1				
SW4	EVQ22405K	SWITCH,	1	D11	MA4300	DIODE(SI)	1
SW5	EVQ22405K	SWITCH,	1	D12	MA4150	DIODE(SI)	1
SW6	PQSH1A43Z	SWITCH,	1	D14	POVD0R5G4B42	DIODE(SI)	1
SW7	PQSH1A43Z	SWITCH,	1	D15	RLS71	DIODE(SI)	1
SW8	PQSH1A43Z	SWITCH,	1				
SW9	PQSH1A43Z	SWITCH,	1	D105, 106, 107, 110	RLS71	DIODE(SI)	4
SW10	PQSH1A43Z	SWITCH,	1	D111	MA700A	DIODE(SI)	1
SW11	PQSH1A43Z	SWITCH,	1	D112	PQVDMTZ4R7	DIODE(SI)	1
SW12	PQSH1A43Z	SWITCH,	1	D113, 120, 121	RLS71	DIODE(SI)	3
SW13	PQSH1A43Z	SWITCH,	1	D124	1SS131	DIODE(SI)	1
SW14	PQSH1A43Z	SWITCH,	1	D126	PQVDMTZ5R6	DIODE(SI)	1
SW15	EVQ22405K	SWITCH,	1				
SW16	PQSH1A43Z	SWITCH,	1	D201	RLS71	DIODE(SI)	1
SW17	PQSH1A43Z	SWITCH,	1	D202	POVDRLZ5R6	DIODE(SI)	1
SW18	PQSH1A43Z	SWITCH,	1	D203	RLS71	DIODE(SI)	1
SW19	EVQ22405K	SWITCH,	1	D204	PQVDAK04A	DIODE(SI)	1
		(CONNECTORS)				(COILS)	
CN1, 2	PQJS7R40Z	CONNECTOR, 7P	2	L1, 2	PQLE106	COIL	2
CN101	PQJS23X62Z	CONNECTOR, 23P	1			(PHOTO ELECTRIC TRANSDUCERS)	
CN102	PQJS12X62Z	CONNECTOR, 12P	1	PC1	PQVIPC357C	PHOTO COUPLER	1
CN103	PQJP14G105Z	CONNECTOR, 14P	1				
CN104, 105	PQJP2G105Z	CONNECTOR, 2P	2	PC101, 102, 103, 105, 106, 107, 108, 111, 112, 113	PQVIPC357C	PHOTO COUPLER	10
TELEPHONE BOARD PARTS						(RELAY)	
PCB3	PQWP3F7BX	TELEPHONE BOARD PARTS (RTL)	1	RLY3	PQSL29Z	RELAY	1
		(ICs)				(SWITCHES)	
IC1	PQVIBA8205F	IC	1	SW1	PQSS2A27W	SWITCH, TONE/PULSE	1
IC2	PQVIMC34119M	IC	1	SW2	PQSS2A27W	SWITCH, VOLUME	1
IC3	PQVINJM4558M	IC	1	SW3	ESE14A211	SWITCH, HOOK	1
IC101	PQVILC73721M	IC	1			(TRANSFORMERS)	
IC102	PQVIBA6566F	IC	1	T1	PQLT2D2A	TRANSFORMER	1
IC103	PQVISV7860SG	IC	1	T2	PQLT8D2A	TRANSFORMER	1
		(TRANSISTORS)		T201	PQLT9Z7A	TRANSFORMER	1
Q3	2SA1626	TRANSISTOR(SI)	1			(VARIABLE RESISTOR)	
Q4	2SD662B	TRANSISTOR(SI)	1	VR1	PQVAL204B24A	VOLUME CONTROL, 20KΩ (B)	S 1
Q5	PQVTDTC143E	TRANSISTOR(SI)	1			(CERAMIC FILTER)	
Q6	PQVTDTA114YU	TRANSISTOR(SI)	1	X1	PQVBT3.58G8	CERAMIC FILTER	1
						(CAPACITORS)	
Q11	2SD1819A	TRANSISTOR(SI)	S 1	C1	ECQE2105KF	1	1
Q12	PQVTDTC143E	TRANSISTOR(SI)	1	C2	ECEA1HU220	22	1
Q13, 14	2SD1819A	TRANSISTOR(SI)	S 2	C4	PQCUV1H682KB	0.0068	1
Q15	PQVTDTC143E	TRANSISTOR(SI)	1	C5, 6	ECEA1HKS010	1	2
				C7	PQCUV1H821JC	820P	1
				C11	PQCUV1C224ZF	0.22	1
				C12	PQCUV1E104MD	0.1	1
				C13	PQCUV1H101JC	100P	1

Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Value	Pcs
C14	PQCUV1E104MD	0.1	1	R6	PQ4R10XJ184	180K	1
C15	PQCUV1H272KB	0.0027	1	R7	PQ4R10XJ393	39K	1
C16	ECEA1CKS100	10	1	R8	PQ4R10XJ562	5.6K	1
C17, 18	ECEA1AU101	100	S 2	R9	PQ4R10XJ000	0	1
C20	ECEA1HKS010	1	1	R10	PQ4R10XJ104	100K	1
C21	PQCUV1H102J	0.001	1	R11	PQ4R10XJ105	1M	1
C22	ECEA1HKS4R7	0.22	1	R12	PQ4R10XJ472	4.7K	1
C23	PQCUV1E104MD	0.1	1	R14	PQ4R10XJ683	68K	1
C25	PQCUV1C224ZF	0.22	1	R15	PQ4R10XJ564	560K	1
C26	PQCUV1E104MD	0.1	1	R17	PQ4R10XJ683	68K	1
C27	PQCUV1E104MD	0.1	1	R18	PQ4R10XJ472	4.7K	1
C30	PQCUV1H332KB	0.0033	1	R20	PQ4R10XJ182	1.8K	1
C31	PQCUV1H103KB	0.01	1	R22	PQ4R10XJ222	2.2K	1
C102	ECEA1HKS4R7	0.47	1	R23	PQ4R10XJ102	1K	1
C103	PQCUV1C823KB	0.082	1	R24	PQ4R10XJ103	10K	1
C104	PQCUV1E153MD	0.015	1	R25	PQ4R10XJ821	820	1
C105	PQCUV1H682KB	0.0068	1	R26	PQ4R10XJ821	820	1
C106	PQCUV1H471JC	470P	1	R27	PQ4R10XJ562	5.6K	1
C107	PQCUV1E333MD	0.033	1	R28	PQ4R10XJ223	22K	1
C108	PQCUV1E333MD	0.033	1	R30	PQ4R10XJ473	47K	1
C109	PQCUV1H471JC	470P	1	R31	PQ4R10XJ473	47K	1
C110	ECEA1CKS220	22	1	R35	PQ4R10XJ474	470K	1
C111	ECEA1CKS100	10	1	R36	PQ4R10XJ470	47	1
C112, 113	ECEA1HKS4R7	4.7	S 2	R37	PQ4R10XJ334	330K	1
C114	PQCUV1H103KB	0.01	1	R40	PQ4R10XJ103	10K	1
C121, 122	ECEA1HKS4R7	4.7	S 2	R41	PQ4R10XJ000	0	1
C123	ECEA1AU221	220	S 1	R42	PQ4R10XJ103	10K	1
C126	ECEA1HKS010	1	1	R43	PQ4R10XJ103	10K	1
C131	PQCUV1H103KB	0.01	1	R45	PQ4R10XJ103	10K	1
C132	PQCUV1E104MD	0.1	1	R48	PQ4R10XJ101	100	1
C133	PQCUV1E104MD	0.1	1	R49	PQ4R10XJ104	100K	1
C135	PQCUV1E104MD	0.1	1	R50	PQ4R10XJ000	0	1
C136	PQCUV1E104MD	0.1	1	R51	PQ4R10XJ102	1K	1
C139	PQCUV1H103KB	0.01	1	R52	PQ4R10XJ000	0	1
C140	PQCUV1H101JC	100P	1	R53	PQ4R10XJ473	47K	1
C141	PQCUV1H103KB	0.01	1	R102	PQ4R10XJ222	2.2K	1
C143	ECEA1AU221	220	S 1	R103	PQ4R10XJ102	1K	1
C145	ECEA1HKS4R7	4.7	S 1	R104	PQ4R10XJ470	47	1
C147	PQCUV1H183MD	0.018	S 1	R105	PQ4R10XJ471	470	1
C150	PQCUV1H103KB	0.01	1	R106	PQ4R10XJ103	10K	1
C151	PQCUV1H103KB	0.01	1	R109, 110	PQ4R10XJ153	15K	2
C152	PQCUV1H471JC	470P	1	R111	PQ4R10XJ204	200K	1
C155-162	PQCUV1H101JC	100P	8	R112	PQ4R10XJ473	47K	1
C163	PQCUV1C224ZF	0.22	1	R113	PQ4R10XJ222	2.2K	1
C165	PQCUV1E104MD	0.1	1	R114	ERDS1TJ560	56	1
C166	PQCUV1H102J	0.001	1	R115	PQ4R10XJ103	10K	1
C167	PQCUV1H682KB	0.0068	1	R118	PQ4R10XJ222	2.2K	1
C201	ECEA1AU101	100	S 1	R122	PQ4R10XJ181	180	1
C202, 203, 204	PQCUV1H103KB	0.01	3	R123	PQ4R10XJ000	0	1
C205	ECEA1HKS4R7	4.7	S 1	R125	PQ4R10XJ104	100K	1
C206, 209	PQCUV1H105JC	1	2	R126	PQ4R10XJ000	0	1
C210	PQCUV1E104MD	0.1	1	R127, 128	PQ4R10XJ155	1.5M	2
C210A	ECST1AX106	10	1	R129, 130	PQ4R10XJ104	100K	2
C350	PQCUV1E104MD	0.1	1	R131	PQ4R10XJ681	680	1
J101	PQ4R10XJ000	(RESISTORS)	2	R132	PQ4R10XJ473	47K	1
J103	PQ4R18XJ000	0	1	R133	PQ4R10XJ222	2.2K	1
R1	ERDS1TJ622	6.2K	1	R135	PQ4R10XJ104	100K	1
R2	PQ4R10XJ102	1K	1	R136	PQ4R10XJ472	4.7K	1
R3	PQ4R10XJ000	0	1	R137	PQ4R10XJ000	0	1
R4	PQ4R10XJ123	12K	1	R139	PQ4R10XJ224	220K	1
R5	PQ4R10XJ334	330K	1	R140	PQ4R10XJ472	4.7K	1
				R141	PQ4R10XJ103	10K	1
				R142	PQ4R10XJ472	4.7K	1
				R143, 144, 145	PQ4R10XJ104	100K	3
				R146, 147	PQ4R10XJ682	6.8K	2
				R148, 152	PQ4R10XJ000	0	2

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
R153	PQ4R10XJ472	4.7K	1	IMAGE BOARD PARTS			
R154	PQ4R10XJ000	0	1	PCB4	PQWP8PW1TNL	IMAGE BOARD ASS'Y (RTL)	1
R155	PQ4R10XJ155	1.5M	1	(ICs)			
R156	PQ4R10XJ104	100K	1	IC900	PQVICX5864MC	IC	S 1
R157	PQ4R10XJ564	560K	1	IC901	PQVI09JN003A	IC	S 1
R158	PQ4R10XJ101	100	1	IC902	PQVISN7H244S	IC	S 1
R159	PQ4R10XJ472	4.7K	1	IC903	PQVISN7H373S	IC	S 1
R161	PQ4R10XJ682	6.8K	1	IC904	PQVILC89066M	IC	1
R163	PQ4R10XJ682	6.8K	1	IC905	PQVITC7H404F	IC	1
R164	PQ4R10XJ682	6.8K	1	IC908	PQVITC7H00F	IC	S 1
R166	PQ4R10XJ104	100K	1	IC909	PQVIPD7HU04S	IC	1
R167	PQ4R10XJ104	100K	1	(COMPONENTS COMBINATIONS)			
R168	PQ4R10XJ224	220K	1	RA901	EXBF7E473JYV	RESISTOR ARRAY	1
R169	PQ4R10XJ224	220K	1	RA902	EXBF9E473JYV	RESISTOR ARRAY	1
R170	PQ4R10XJ152	1.5K	1	(CAPACITORS)			
R172	PQ4R10XJ392	3.9K	1	C901	ECEA1VKS4R7	4.7	1
R176	PQ4R10XJ102	1K	1	C903	PQCUV1H330JC	33P	1
R177	PQ4R10XJ102	1K	1	C904	PQCUV1H330JC	33P	1
R178	PQ4R10XJ104	100K	1	C906-912	PQCUV1E104MD	0.1	7
R179	PQ4R10XJ334	330K	1	C914	PQCUV1H221JC	220P	1
R180	PQ4R10XJ394	390K	1	C915	PQCUV1E104MD	0.1	1
R181	PQ4R10XJ103	10K	1	C916	PQCUV1E104MD	0.1	1
R182	PQ4R10XJ224	220K	1	(RESISTOR)			
R183	PQ4R10XJ104	100K	1	R913	PQ4R10XJ102	1K	1
R185	PQ4R10XJ224	220K	1	(CONNECTORS)			
R187	PQ4R10XJ224	220K	1	CN901, 902	PQJS10R03Z	CONNECTOR, 10P	2
R188	PQ4R10XJ104	100K	1	CN903	PQJS12X54Z	CONNECTOR, 12P	1
R189, 190	PQ4R10XJ332	3.3K	2	CN904	PQJS08R03Z	CONNECTOR, 8P	1
R191	PQ4R10XJ104	100K	1	POWER SUPPLY BOARD PARTS			
R192	PQ4R10XJ333	33K	1	PCB5	PQLP051Z	POWER SUPPLY BOARD ASS'Y (RTL)	1
R193	PQ4R10XJ682	6.8K	1	(ICs)			
R194	PQ4R10XJ222	2.2K	1	IC401	PQVIM51977P	IC	1
R195	PQ4R10XJ562	5.6K	1	IC402	PQVIUPC1093J	IC	S 1
R196	PQ4R10XJ102	1K	1	IC403	PQVINJ2360D	IC	S 1
R197	PQ4R10XJ102	1K	1	IC404, 405	PQVITA7812AP	IC	S 2
R201	PQ4R10XJ472	4.7K	1	(TRANSISTORS)			
R202	PQ4R10XJ223	22K	1	Q401	2SK1643	TRANSISTOR(SI)	△ 1
R203	PQ4R10XJ471	470	1	Q404	PQVTDTC143XS	TRANSISTOR(SI)	1
R205	PQ4R10XJ102	1K	1	Q405	2SJ176	TRANSISTOR(SI)	1
R300	PQ4R10XJ000	0	1	Q406	2SD1266	TRANSISTOR(SI)	1
R310	PQ4R10XJ104	100K	1	(DIODES)			
R311	PQ4R10XJ000	0	1	D401	PQVDD3SBA60M	DIODE(SI)	△ 1
R315	PQ4R10XJ223	22K	1	D402	PQVD1JU41	DIODE(SI)	1
R316	PQ4R10XJ103	10K	1	D403	PQVD1GU42	DIODE(SI)	1
R317	PQ4R10XJ473	47K	1	D404	PQVD1GU42	DIODE(SI)	1
R318	PQ4R10XJ124	120K	1	D405	PQVDD10LC20U	DIODE(SI)	1
H/S JACK	PQJ1TB18Z	(JACK, CONNECTORS & OTHER) HANDSET JACK	1	D407	PQVD0R8DU41	DIODE(SI)	1
CN1	PQJS9X54Z	CONNECTOR, 9P	1	D408	PQVD1GU42	DIODE(SI)	1
CN2	PQJS13X54Z	CONNECTOR, 13P	1	D411	PQVDAK04	DIODE(SI)	1
CN3	PQJP2D70Y	CONNECTOR, 2P	1	ZD401	MA4270	DIODE(SI)	1
CN4	PQJP06A14Z	CONNECTOR, 6P	1	ZD402	MA4062	DIODE(SI)	1
CN101	PQJS9X54Z	CONNECTOR, 9P	1	(FUSE)			
CN102	PQJS13X54Z	CONNECTOR, 13P	1	F401	XBA2C31TR0	FUSE	△ 1
CN103	PQJS18R02Z	CONNECTOR, 18P	1				
CN104	PQJS08R02Z	CONNECTOR, 8P	1				
E1	PQHX10069Z	SHEET	1				

Ref. No.	Part No.	Part Name & Description	Pcs
R420	ER016CKF1131	1.13K	1
R421	ERG1SJ561	560	1
R422	ERD25TJ472	4.7K	1
R423	ERD25TJ472	4.7K	1
R424	ER016CKF1201	1.2K	1
R425	ER016CKF3651	3.65K	1
R426	ERD25TJ101	100	1
R427	ERG2SJ122	1.2K	1
R428	ERX1SJR22	0.22	1
R440	ERDS2TJ121	120	1
J401, 402	PQJ11TA14Y	(JACK & CONNECTORS) TEL. JACK	2
CN401	PQJP2D98Z	CONNECTOR, 2P	1
CN402	PQJP10G43Z	CONNECTOR, 10P	1
CN403	PQJP13A12Z	CONNECTOR, 13P	1
CN404	PQJP4G91Z	CONNECTOR, 4P	1
CN405	PQJP06A13Z	CONNECTOR, 6P	1
LCD BOARD PARTS			
PCB6	PQLP036Y	LCD BOARD ASS'Y (RTL)	1
IC1	PQVIHD44780	(IC) IC	1
C1	PQCUV1E104MD	(CAPACITORS) 0.1	1
C2	ECUV1H104MD	0.1	1
R1	PQ4R18XF9092	(RESISTORS) 90.9K	1
R2-6	PQ4R18XF8201	8.2K	5
E10	PQADCG794TSA	(OTHERS) LIQUID CRYSTAL DISPLAY	1
E11	PQJE134Z	CONNECTOR	2
E12	PQMD91Z	FRAME	1

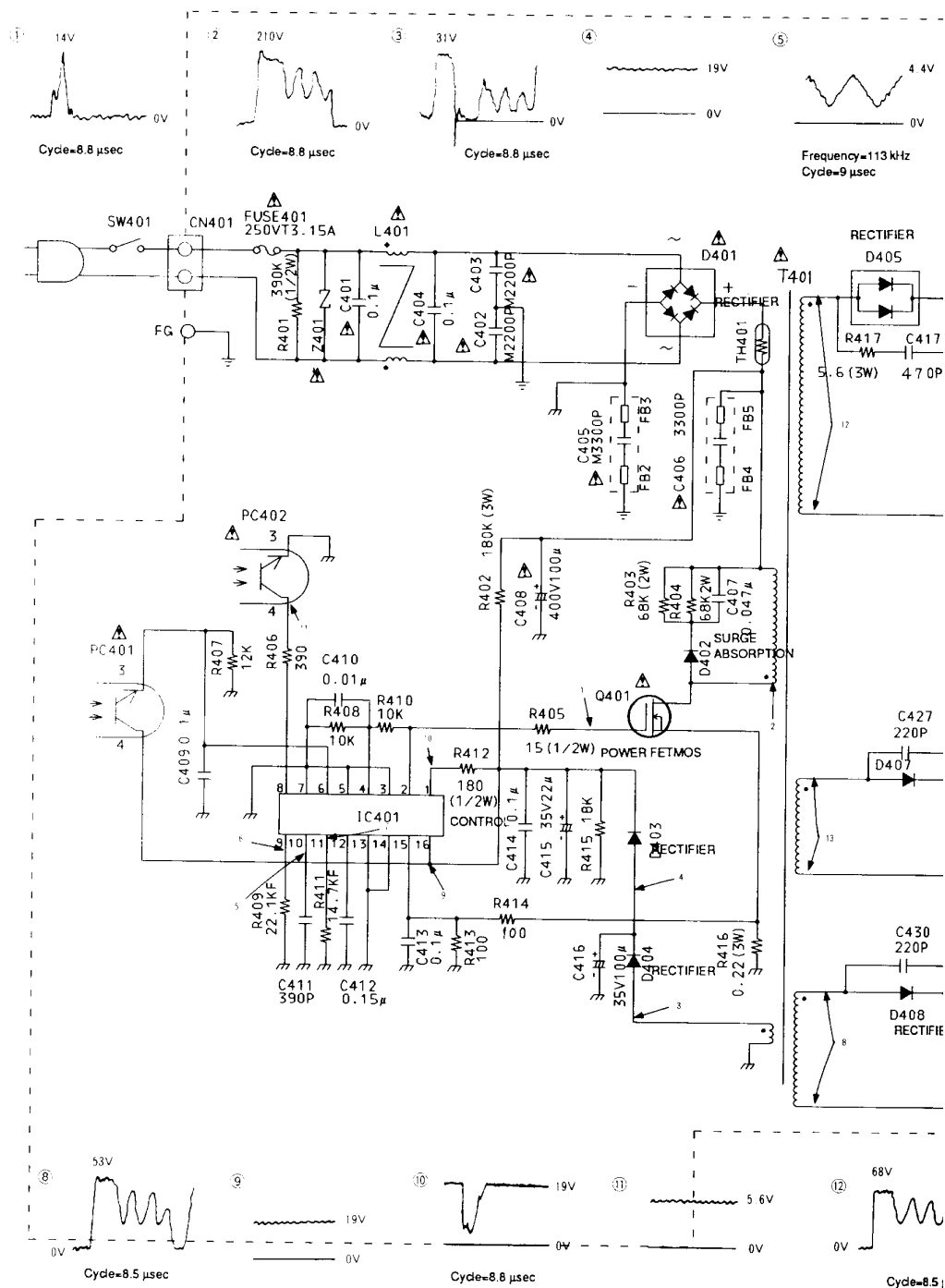
KX-F7B

■ TELEPHONE CIRCUIT (Change of original pages 71 and 72)

R122	270Ω	➔	R122	180Ω
R155	820 kΩ		R155	1.5 MΩ
R158	270Ω		R158	100Ω
(Model KX-F76)			(Model KX-F7B)	

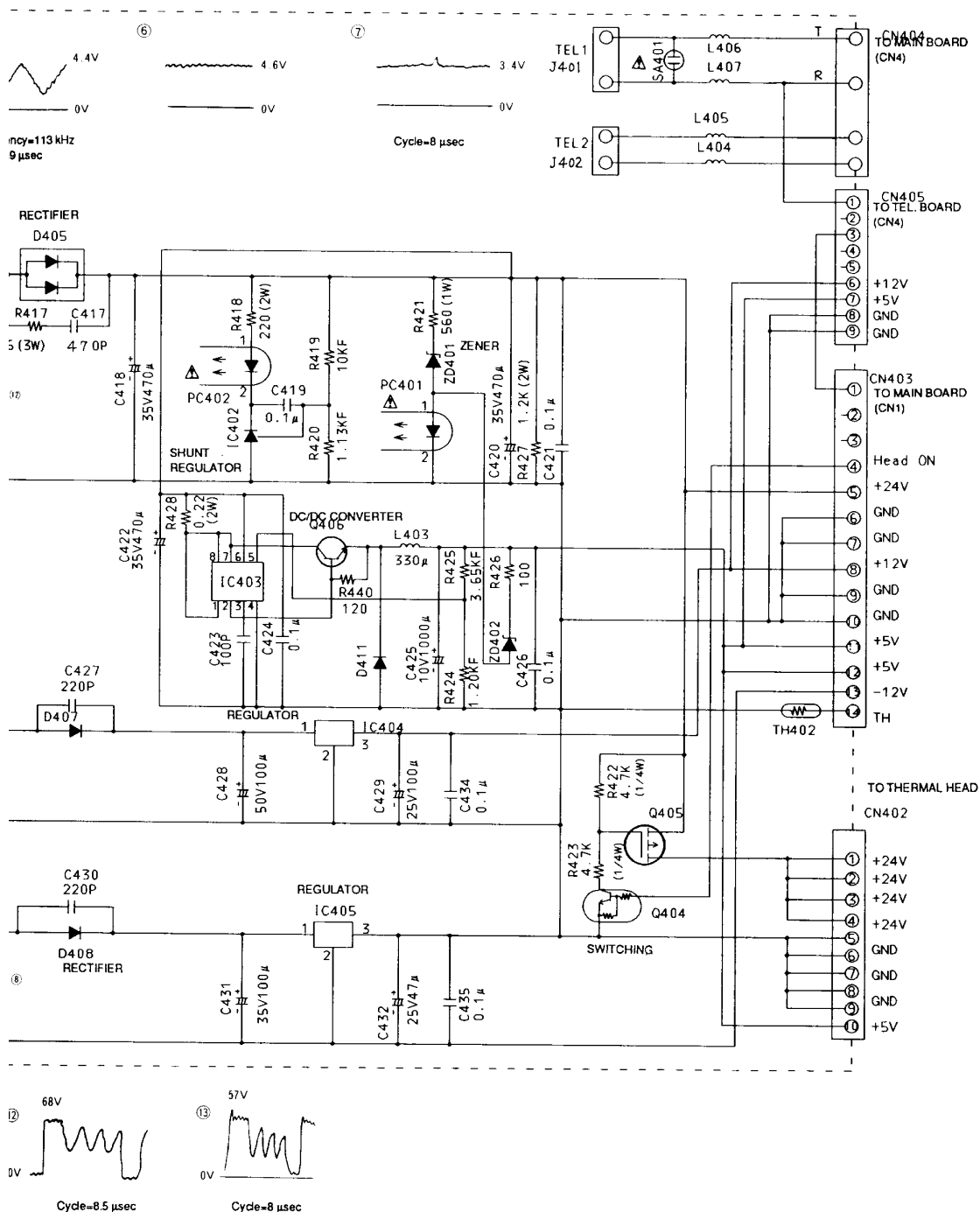
SCHEMATIC DIAGRAM

■ POWER SUPPLY CIRCUIT



GRAM...Change of original pages 67 and 68

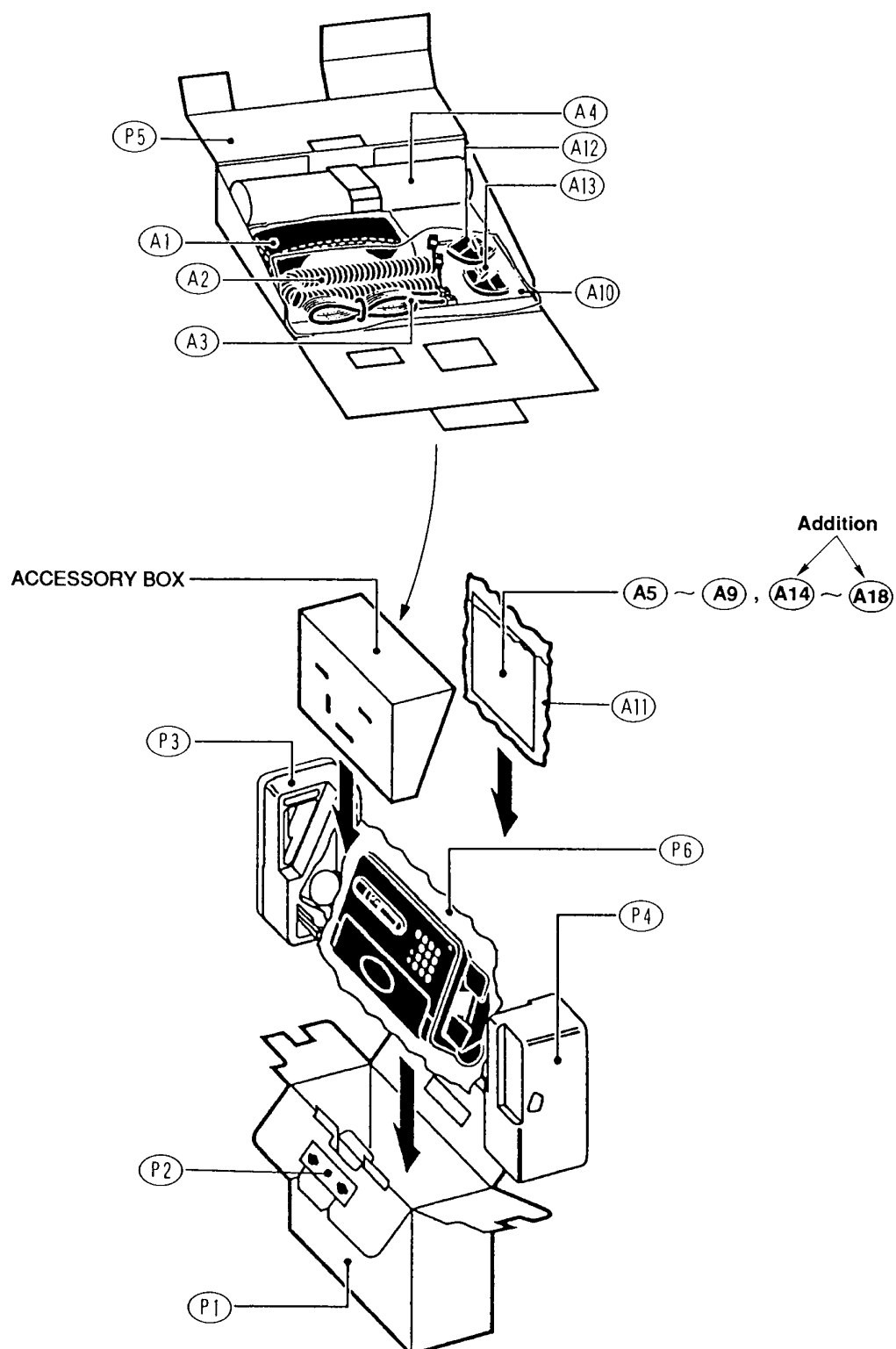
7	8	9	10	11	12
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(Model KX-F7B)



■ ACCESSORIES AND PACKING MATERIALS (Change of original page 86)



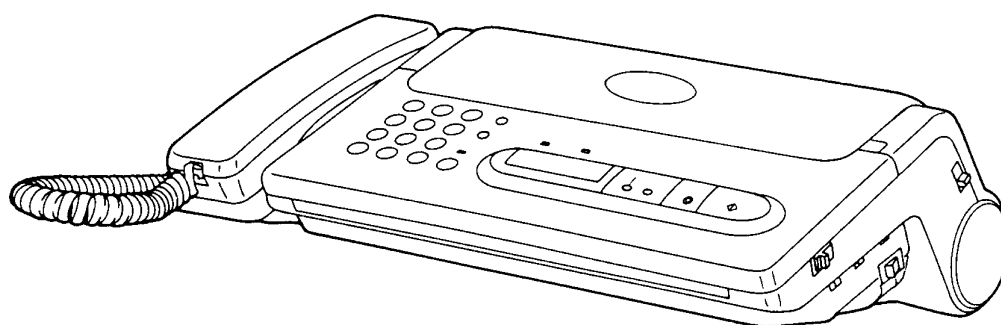
Service Manual

and Technical Guide

PERSONAL FACSIMILE

KX-F76

(for Taiwan)



SPECIFICATIONS\ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ
MAINTENANCE ITEM\ТОЧКИ СЕРВИСНОГО ОБСЛУЖИВАНИЯ
TROUBLESHOOTING GUIDE\НЕИСПРАВНОСТИ И МЕТОДЫ ИХ УСТРАНЕНИЯ
DISASSEMBLY INSTRUCTIONS\МЕТОДИКА РАЗБОРКИ
BLOCK DIAGRAM\БЛОК-СХЕМА
OVERALL CIRCUIT DIAGRAM\СХЕМА СОЕДИНЕНИЯ ПЛАТ И УЗЛОВ
SCHEMATIC DIAGRAMS\ПРИНЦИПИАЛЬНЫЕ СХЕМЫ
CABINET, MECHANICAL AND ELECTRICAL PARTS LOCATION\РАСПОЛОЖЕНИЕ
ЧАСТЕЙ КОРПУСА, МЕХАНИЧЕСКИХ И ЭЛЕКТРИЧЕСКИХ ЧАСТЕЙ
ACCESSORIES AND PACKING MATERIALS\ПРИНАДЛЕЖНОСТИ И УПАКОВочные МАТЕРИАЛЫ
REPLACEMENT PARTS LIST\СПИСОК ЗАПАСНЫХ ЧАСТЕЙ

Panasonic

SPECIFICATIONS

1. TRANSMISSION SECTION

Item		Description
1	Reading	CCD Image Sensor
2	Width of reading	252 mm (B4), 208 mm (A4)
3	Main scanning density	8 pels/mm
4	Side scanning density	3.85, 7.7, 15.4 line/mm
5	Synchronous form	Transmission Synchronism

2. RECEPTION SECTION

Item		Description
1	Reading	Thermal Recording
2	Size of recording paper	Standard 257×30 m roll paper (B4) 210×30 m roll paper (A4)
3	Width of recording	252 mm (B4), 208 mm (A4)
4	Main scanning density	8 pels/mm
5	Side scanning density	3.85, 7.7, 15.4 line/mm
6	Synchronous form	Transmission Synchronism

3. MODEM SECTION

Items		Description				
1	Transmission mode	V. 29		V. 27 ter		V. 21
2	Modulating mothod	16 Pt. QAM	8 Pt. QAM	8 Pt. PHM	4 Pt. PHM	FSK
3	Transmission speed (bps)	9600	7200	4800	2400	300
4	Modulating speed (Band)	2400	2400	1600	1200	300
5	Carrir frequency	1700		1800		f (A)=1850 f (Z)=1650
6	Detection method	Synchronizing detection		Synchronizing detection		FS
7	Tonal signal	2100 Hz (CED), 1100 Hz (CNG)				

4. POWER SUPPLY SECTION

Items		Description
1	Input power supply	AC 110 V \pm 10% 60 Hz
2	Insulation resistance	More than 10 M Ω between input power supply and earth
3	Power consumption	Standby 8 W Transmission 18 W Reception 30 W Copy 35 W MAX 150 W
4	Output power supply	+5 V, +12 V, -12 V, +24 V

5. ENVIRONMENT

Items		Description
1	Ambient air temperature	from 5°C to 35°C
2	Relative temperature	from 45% to 85%

6. SIZE AND WEIGHT

Items		Description
1	Size	W: 391 mm, D: 233 mm, H: 115 mm
2	Weight	about 3.2 kg (Unit)

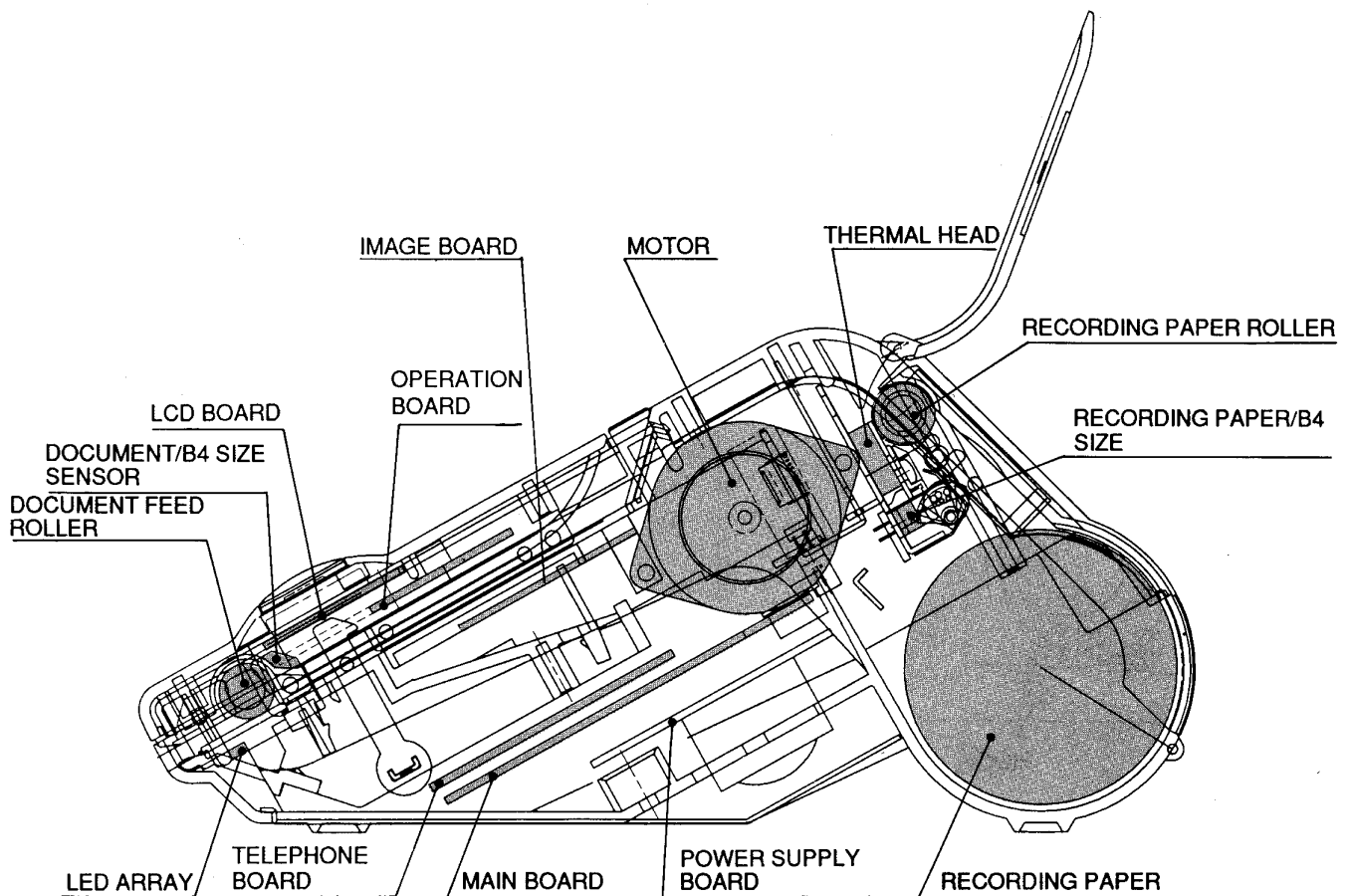
MAINTENANCE ITEM

1. OUTLINE

MAINTENANCE AND REPAIRS ARE PERFORMED USING THE FOLLOWING STEPS.

- 1) **Periodic maintenance**
Inspect the equipment periodically and if necessary, clean any contaminated parts.
- 2) **Check for breakdowns**
Look for signs of trouble and consider how the problems arose.
If the equipment can still be used, perform a copying, self testing or communications testing.
- 3) **Check equipment**
Perform a copying, self testing and communications testing to determine if the problem originates from the transmitter, the receiver or the telephone line.
- 4) **Determine causes**
Determine the causes of equipment trouble by troubleshooting.
- 5) **Equipment repairs**
Repair or replace the defective parts and take appropriate measures at this stage to ensure that the problem does not recur.
- 6) **Confirm normal operation of the equipment**
After completing the repairs, conduct copying, self testing and communications testing to confirm that the equipment operates normally.
- 7) **Record keeping**
Make a record of the measures taken to rectify the problem for future reference.

2. MAINTENANCE CHECK ITEM



NO.	OPERATION	CHECK ITEM	REMARKS
1	Document Path	Remove any foreign matter such as paper.	—
2	Rollers	If the roller is dirty, clean it with a damp cloth then dry thoroughly.	See pages 22, 27.
3	Thermal Head	If the thermal head is dirty, clean the printing surface with a cloth moistened with denatured alcohol (alcohol without water), then dry thoroughly.	See page 27.
4	LED Array	If the LED Array is dirty, clean the glass with dry soft cloth.	See page 27.
5	Sensor & Switch	Recording Paper Sensor (PC301, 302), Document Sensor (PC201, 203), Confirm operation of sensor.	See pages 12–15.
6	Abnormal, wear and tear or looseness of parts	Exchange the part. Check the tightness of screws on each parts.	—

Note:

Print out the RAM data (user setting and service mode setting) in case an unexpected accident occurs during servicing.
After servicing, print out the data again to confirm it.

TROUBLESHOOTING GUIDE

1. SERVICE FUNCTION

1-1. OPERATION

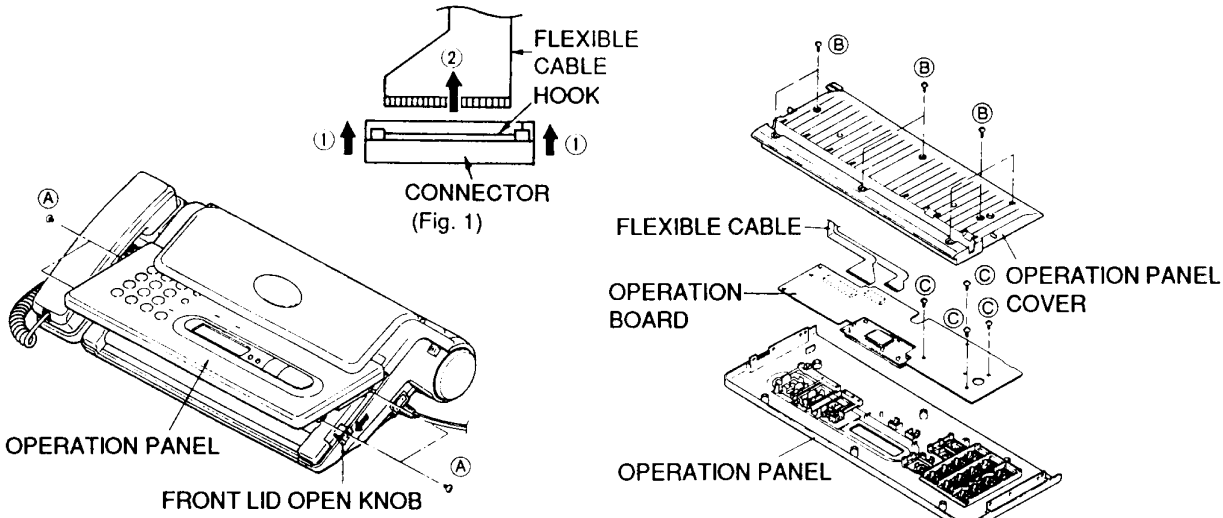
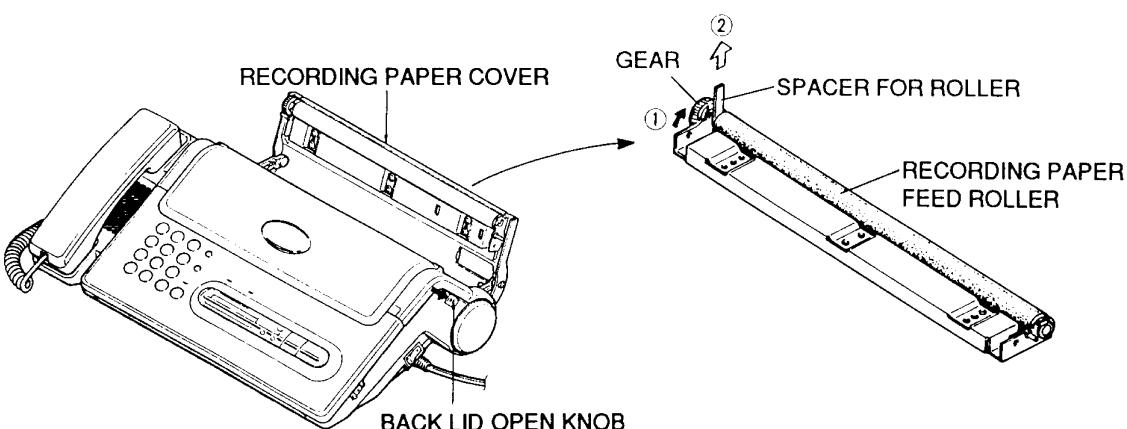
1. Set the FUNCTION Switch to ON.
2. Press The AUTO/ABSENCE and START/COPY button.
3. Select the Code No. (Press the RESOLUTION and AUTO/ABSENCE button.)
4. Press the START/COPY button.
5. Change the value. (Press the AUTO/ABSENCE button.)
6. Press the START/COPY button.
7. Set the FUNCTION Switch to OFF.

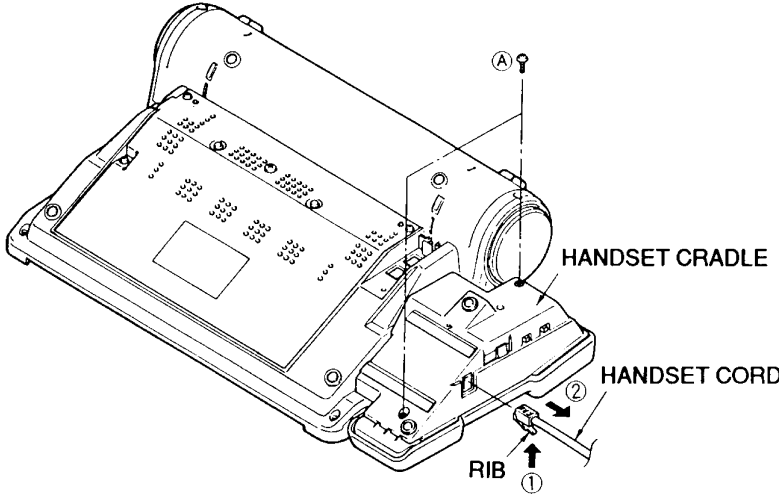
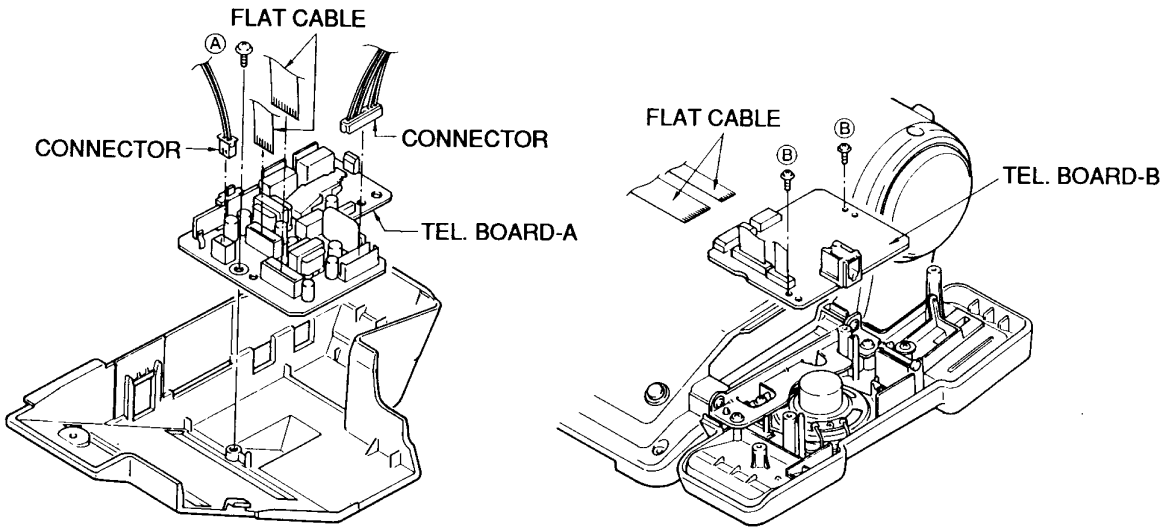
1-2. SERVICE FUNCTION TABLE

CODE	FUNCTION	SELECTABLE VALUE (DEFAULT)	VALUE
500	SERVICE LIST	YES	YES/OFF
520	CED	2100Hz	2100 Hz/1100 Hz
521	INTL MODE	ON	ON/OFF
523	RCV EQ.	1.8Km	0.0/1.8/3.6/7.2
524	XMT EQ.	1.8Km	0.0/1.8/3.6/7.2
548	TSI SEND	ON	ON/CSI/OFF
549	CSI SEND	ON	ON/OFF
550	FACTORY SET	NO	YES/NO
551	ROM	F211A 38A3	
554	MODEM TEST	OFF	ON/OFF
555	SCAN CHECKTEST	OFF	ON/OFF
556	MOTOR TEST	OFF	ON/OFF
557	LED TEST	OFF	ON/OFF
558	LCD TEST	OFF	ON/OFF
559	DETECT JAM	ON	ON/OFF
563	CCD POSITION	-2mm	-4-3
575	OFFHOOK ALARM	ON	ON/OFF
586	W.L.SKIP1	ON	ON/OFF
587	W.L.SKIP2	ON	ON/OFF
588	SHORT PRCL	OFF	ON/OFF
592	CNG SIGNAL	ON	ON/OFF
593	CED INTVAL	75ms	75/500/1000
594	DIS IGNORE	ON	OFF/ON
595	ERROR LINES	96	32/64/96/128/160/192/224/255
596	XMT LEVEL	-10dBm	-15-0
597	XMT SPEED	AUTO	AUTO/9600/7200/4800/2400
705	ID PRINT	ON	ON/OFF
717	XMT START	9600bps	9600/4800
718	RCV START	9600bps	9600/4800
757	DTMF TIME	25ms	15/25/50/100
759	OGM TIME	10s	1-99
761	FAX DET. TIM	6.0s	3.8/4.5/6.0/9.0
770	ORIG. MODE	ON	ON/OFF
771	T1 TIMER	38s	38/48

CODE	FUNCTION	SELECTABLE VALUE (DEFAULT)	VALUE
772	PREAMBLE	1000ms	900/1000/1100
773	DIS-DCS	460ms	100/460/1000
774	LIGHT ORIG.	OFF	ON/OFF
780	REMOTE CODE	*9	00-*/of
783	ICM TIME	000s	000-999
785	BELL TEST	OFF	ON/OFF
786	RING BCKTONE	OFF	ON/OFF
787	COMM. TEST	OFF	ON/OFF
788	SHADING	OFF	ON/OFF

DISASSEMBLY INSTRUCTIONS

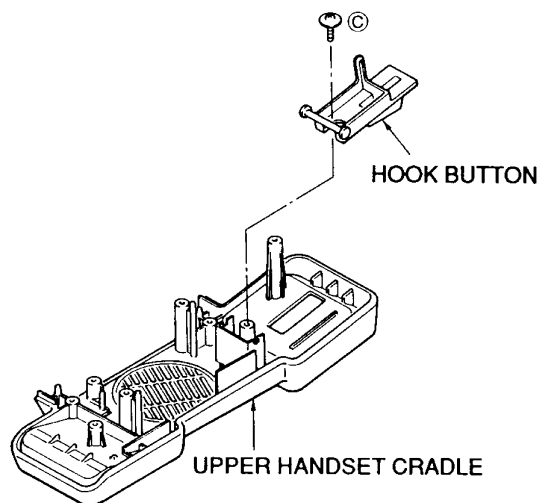
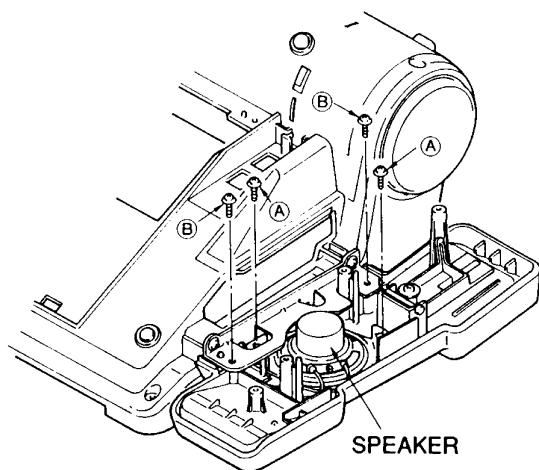
Ref. No. 1	HOW TO REMOVE THE OPERATION PANEL AND OPERATION BOARD	
Procedure 1	<ol style="list-style-type: none"> 1) Push the front lid open knob. 2) Remove the four screws (A). 3) Remove the seven screws (B). 4) Remove the operation panel cover. 5) Remove the four screws (C). 6) Remove the operation panel and operation board. 7) Remove the hook of connector then remove the flexible cable. (See Fig. 1.) 	
	 <p>The diagram illustrates the removal of the operation panel and operation board. It includes a perspective view of the device with labels for the OPERATION PANEL, FRONT LID OPEN KNOB, and a detail of the FLEXIBLE CABLE HOOK and CONNECTOR (Fig. 1). An exploded view shows the OPERATION BOARD, OPERATION PANEL COVER, and OPERATION PANEL with screws A, B, and C indicated.</p>	
Ref. No. 2	HOW TO REMOVE THE RECORDING PAPER FEED ROLLER	
Procedure 2	<ol style="list-style-type: none"> 1) Push the back lid open knob. 2) Remove the recording paper feed roller. 	
	 <p>The diagram illustrates the removal of the recording paper feed roller. It includes a perspective view of the device with labels for the RECORDING PAPER COVER and BACK LID OPEN KNOB. An exploded view shows the RECORDING PAPER FEED ROLLER, SPACER FOR ROLLER, and GEAR with arrows 1 and 2 indicating the removal steps.</p>	
	<p>Cleaning: Clean the roller with a cloth soaked in alcohol.</p>	

Ref No. 3	HOW TO REMOVE THE LOWER HANDSET CRADLE	
Procedure 3	1) Remove the handset cord. 2) Remove the two screws (A). 3) Remove the lower handset cradle.	
		
Ref No. 4	HOW TO REMOVE THE TELEPHONE BOARD	
Procedure 3→4	1) Remove the two connectors. 2) Remove the two flat cables. 3) Remove the one screw (A). 4) Remove the telephone board-A.	
		

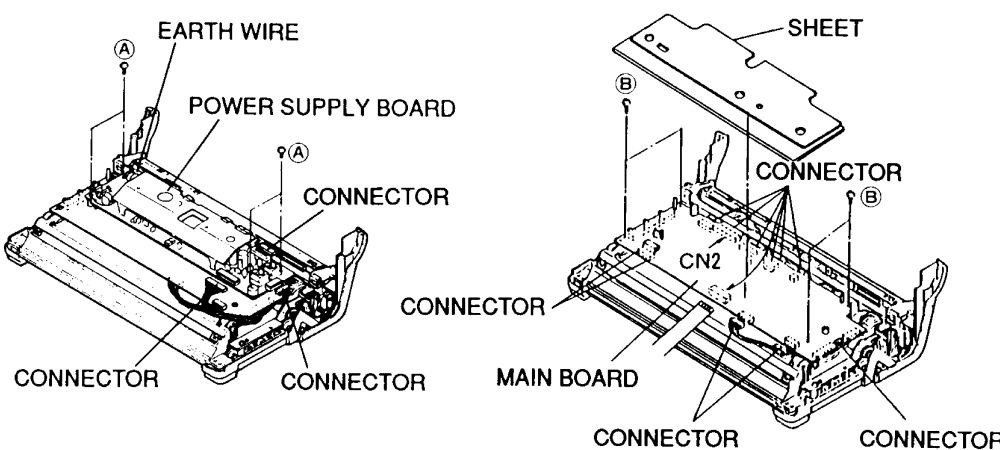
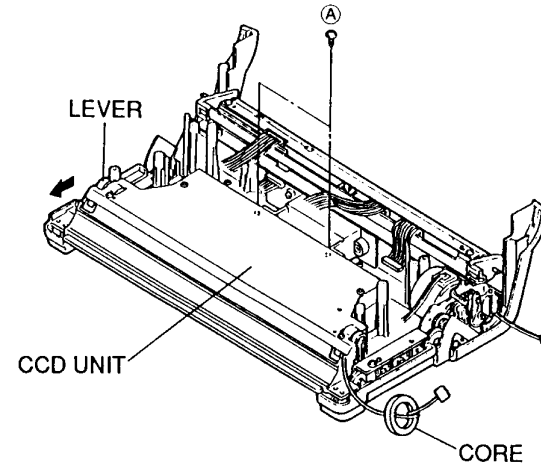
Ref. No. 5

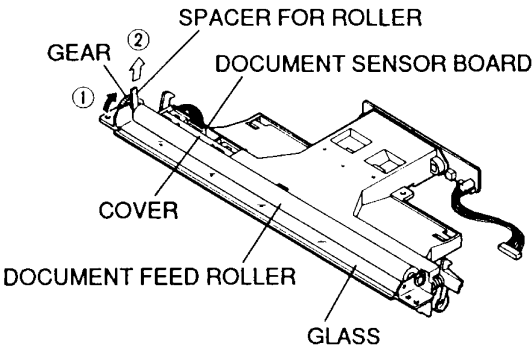
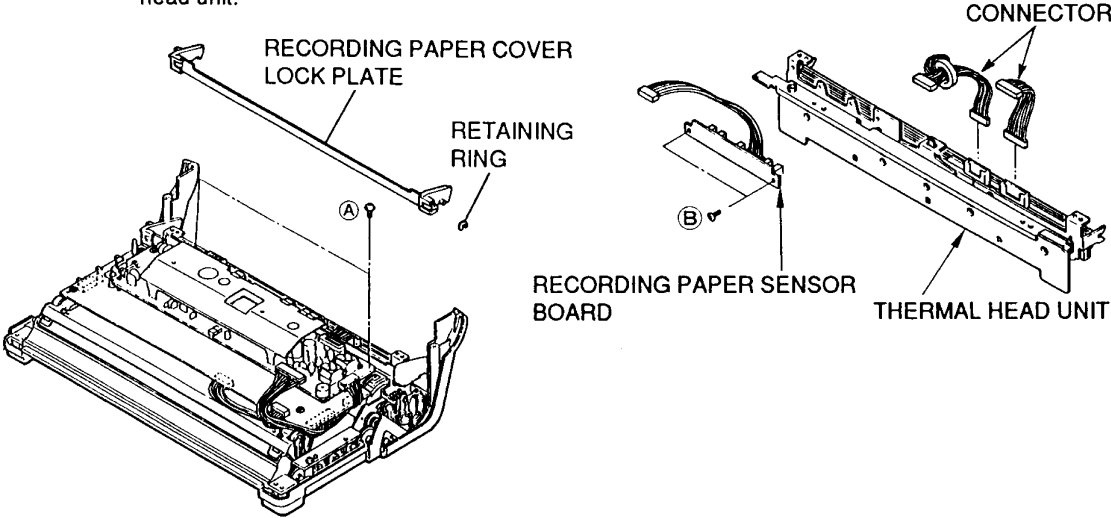
HOW TO REMOVE THE SPEAKER AND UPPER HANDSET CRADLEProcedure
3→4→5

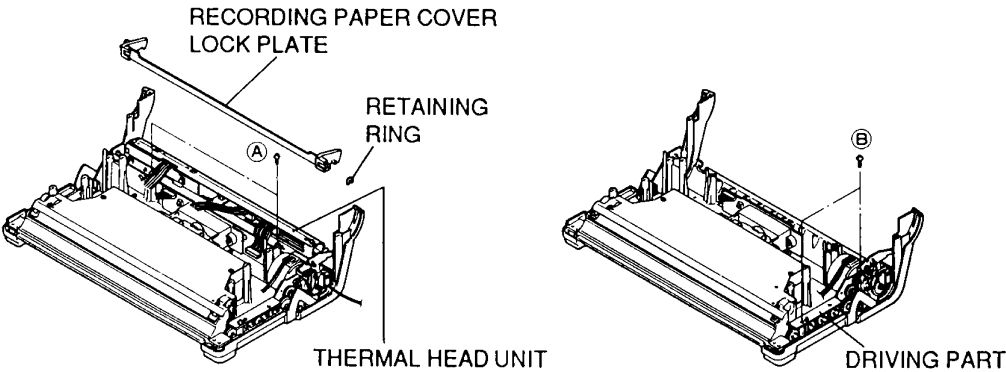
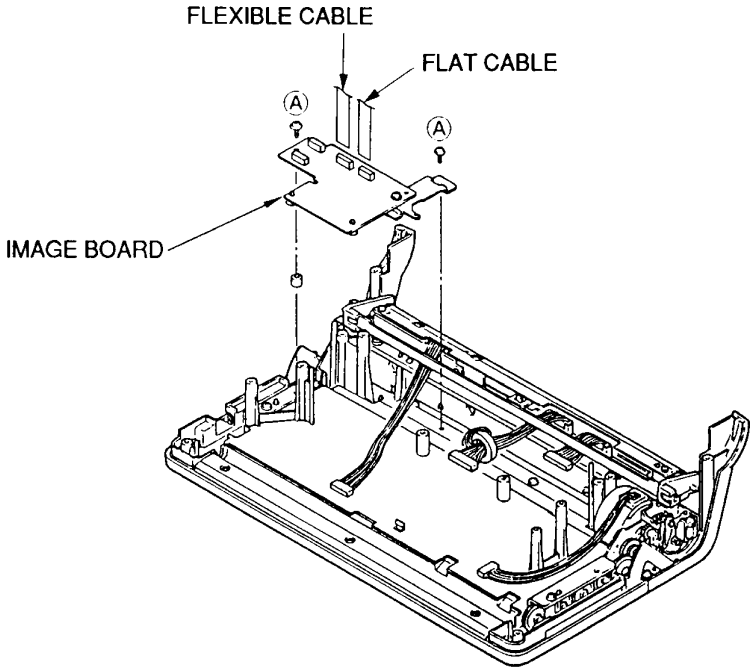
- 1) Remove the two screws (A).
- 2) Replace the speaker.
- 3) Remove the two screws (B).
- 4) Remove the one screw (C), and remove the hook button.
- 5) Replace the upper handset cradle.

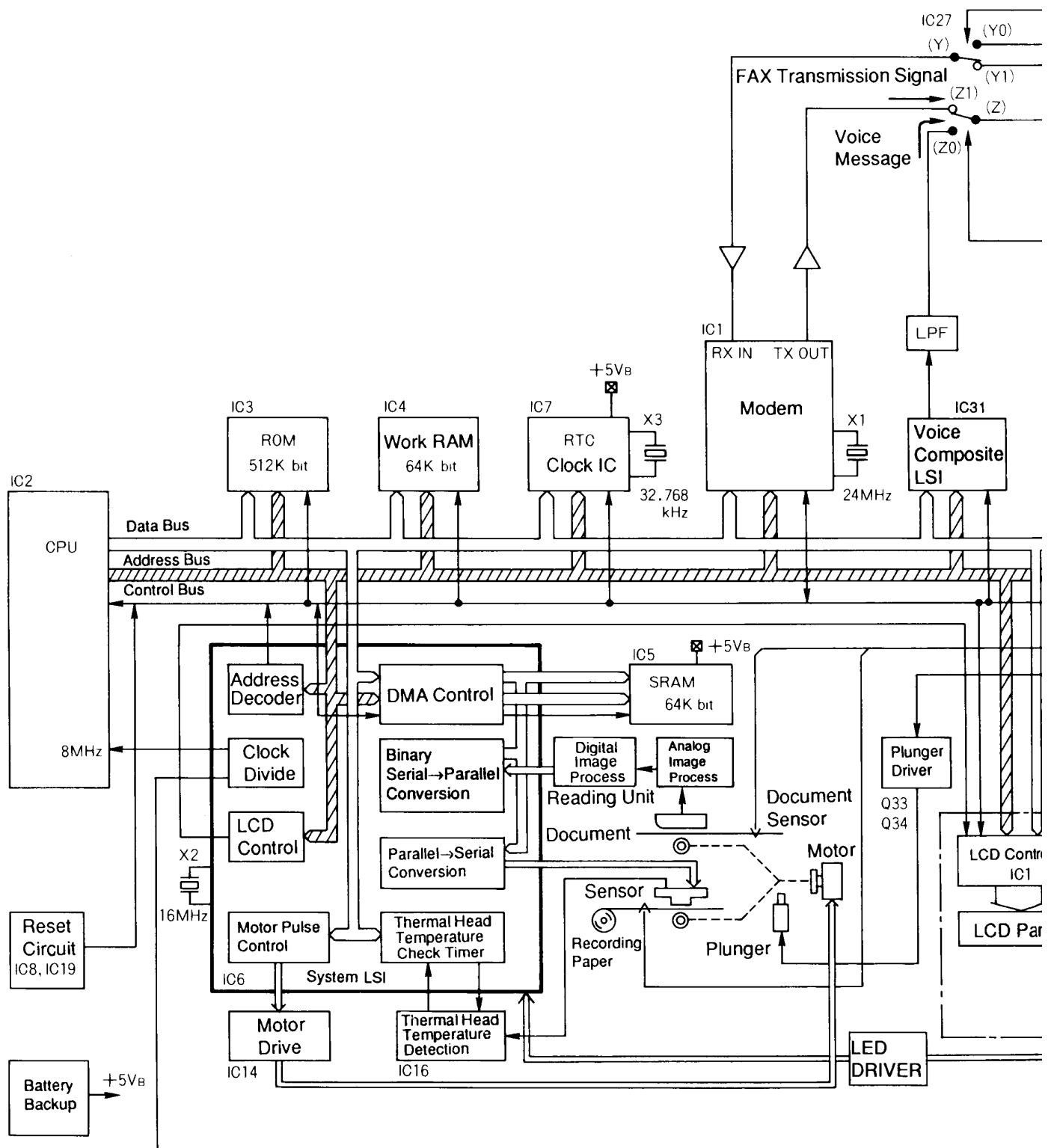


Ref. No. 6	HOW TO REMOVE THE LOWER CABINET
Procedure 3→4→5→6	<div data-bbox="352 360 1158 472"> <ol style="list-style-type: none"> 1) Open the recording paper cover. (See Ref. No. 2.) 2) Remove the three screws (A). 3) Remove the bottom plate. 4) Remove the connector. 5) Remove the six screws (B). 6) Remove the lower cabinet. </div> <div data-bbox="177 584 1305 1055"> </div>
Ref. No. 7	HOW TO REMOVE THE RECORDING PAPER SENSOR LEVER
Procedure 3→4→5→6→7	<div data-bbox="352 1234 815 1290"> <ol style="list-style-type: none"> 1) Remove the two screws (A). 2) Replace the recording paper sensor lever. </div> <div data-bbox="523 1413 1150 1850"> </div>

Ref. No. 8	HOW TO REMOVE THE POWER SUPPLY AND MAIN BOARDS	
Procedure 3→4→5→6→8	<ol style="list-style-type: none"> 1) Remove the four screws (A). 2) Remove the four connectors. 3) Remove the earth wire. 4) Remove the power supply board. 5) Remove the sheet. 6) Remove the four screws (B). 7) Remove the eleven connectors. 8) Remove the main boards. 	
		
Ref. No. 9	HOW TO REMOVE THE CCD UNIT	
Procedure 3→4→5→6→ 8→9	<ol style="list-style-type: none"> 1) Remove the two screws (A). 2) Remove the CCD unit by keeping the lever depressed in the direction of the arrow to replace the CCD unit. Remove the Document Sensor Board (refer to No. 10 on page 27) and the core from the old CCD unit and install it in the new one. 	
	 <p>Note: Never subject the center part of the CCD unit to strong pressure.</p>	

Ref. No. 10	HOW TO REMOVE THE DOCUMENT FEED ROLLER AND DOCUMENT SENSOR BOARD	
Procedure 3→4→5→6→ 8→9→10	<p>(DOCUMENT FEED ROLLER) 1) Remove the document feed roller.</p> <p>(DOCUMENT SENSOR BOARD) 1) Remove the cover. 2) Remove the document sensor board.</p>  <p>Cleaning: Clean the roller and glass with a cloth soaked in alcohol.</p>	
Ref. No. 11	HOW TO REMOVE THE THERMAL HEAD UNIT AND RECORDING PAPER SENSOR BOARD	
Procedure 3→4→5→6→ 7→11	<p>1) Remove the retaining ring, and remove the recording paper cover lock plate. 2) Remove the two screws (A). 3) Remove the thermal head unit. 4) Remove the two connectors from thermal head unit.</p> <p>5) Remove the two screws (B), and remove the recording paper sensor board. 6) Install the new thermal head unit and the recording paper sensor board.</p>  <p>Cleaning: Clean the printing surface of thermal head with a cloth soaked in alcohol.</p>	

Ref. No. 12	HOW TO REMOVE THE DRIVING PART
Procedure 3→4→5→6→ 12	<div>1) Remove the retaining ring, and remove the recording paper cover lock plate.</div> <div>2) Remove the two screws (A).</div> <div>3) Remove the thermal head unit.</div> <div>4) Remove the two screws (B).</div> <div>5) Replace the driving part.</div> <div></div>
Ref. No. 13	HOW TO REMOVE THE IMAGE BOARD
Procedure 3→4→5→6→ 8→9→13	<div>1) Remove the flat cable and flexible cable.</div> <div>2) Remove the two screws (A).</div> <div>3) Remove the image board.</div> <div></div>



Fig



Block Diagram

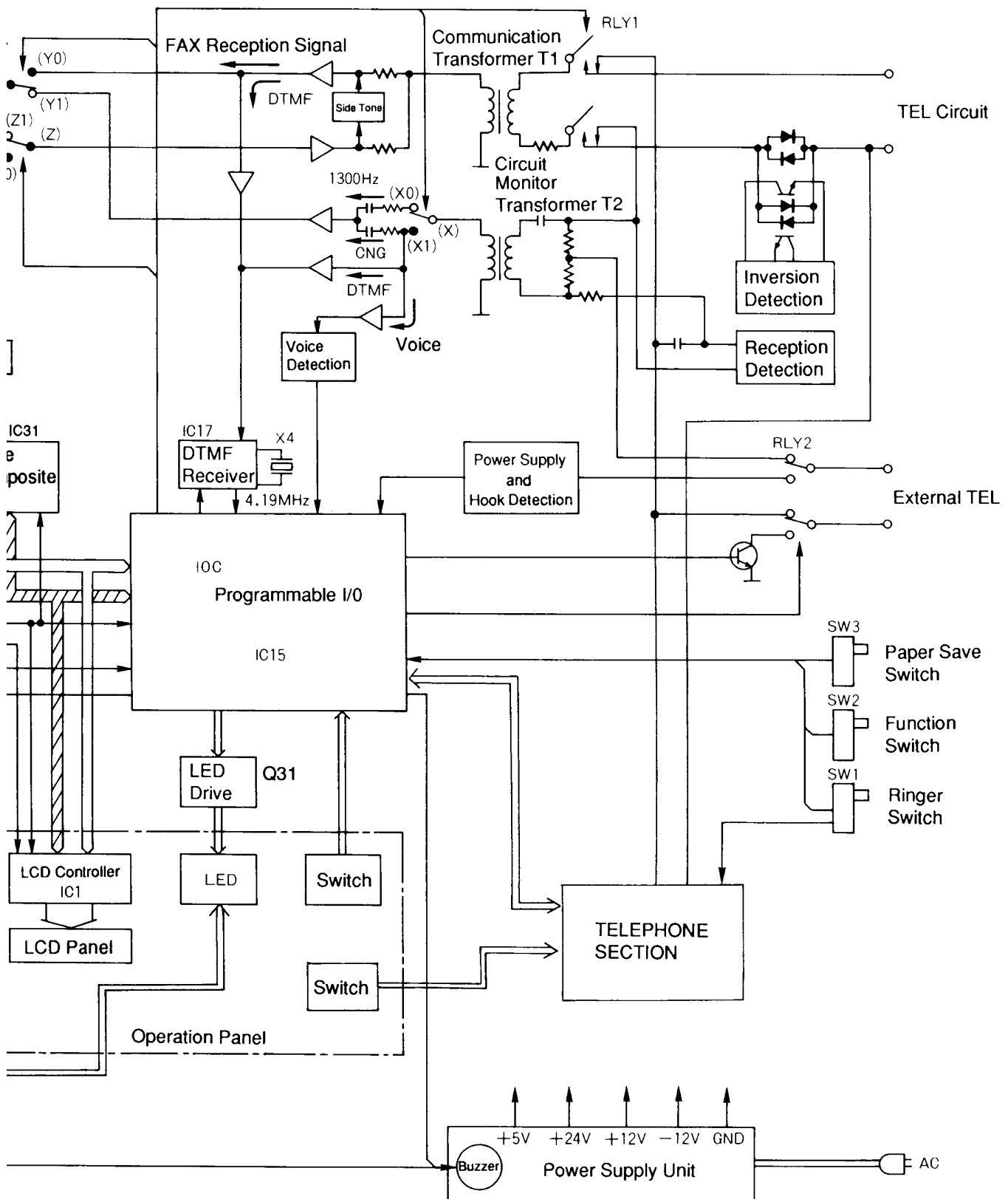


Fig. 1



Overall Circuit Diagram

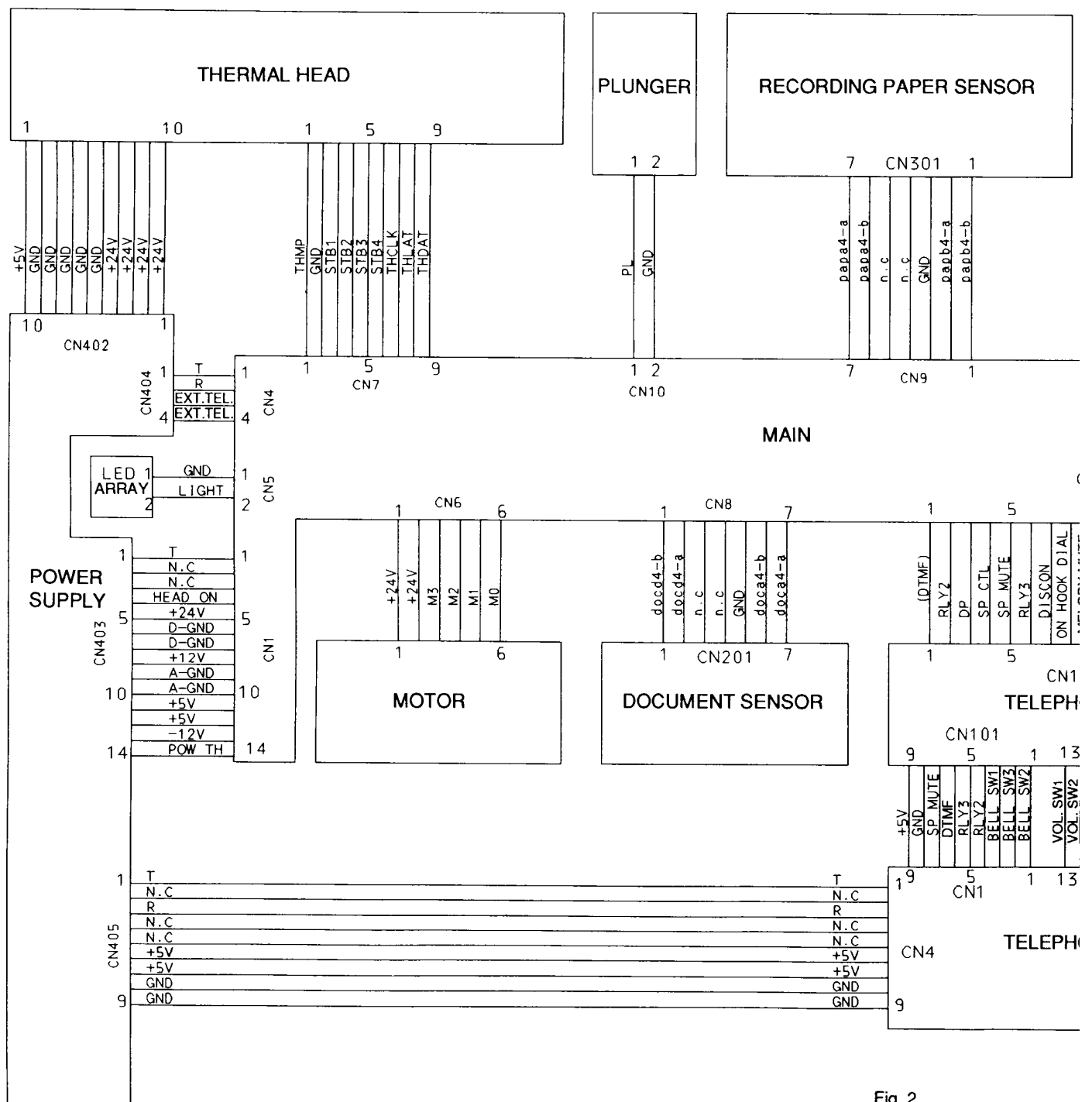
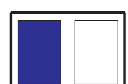
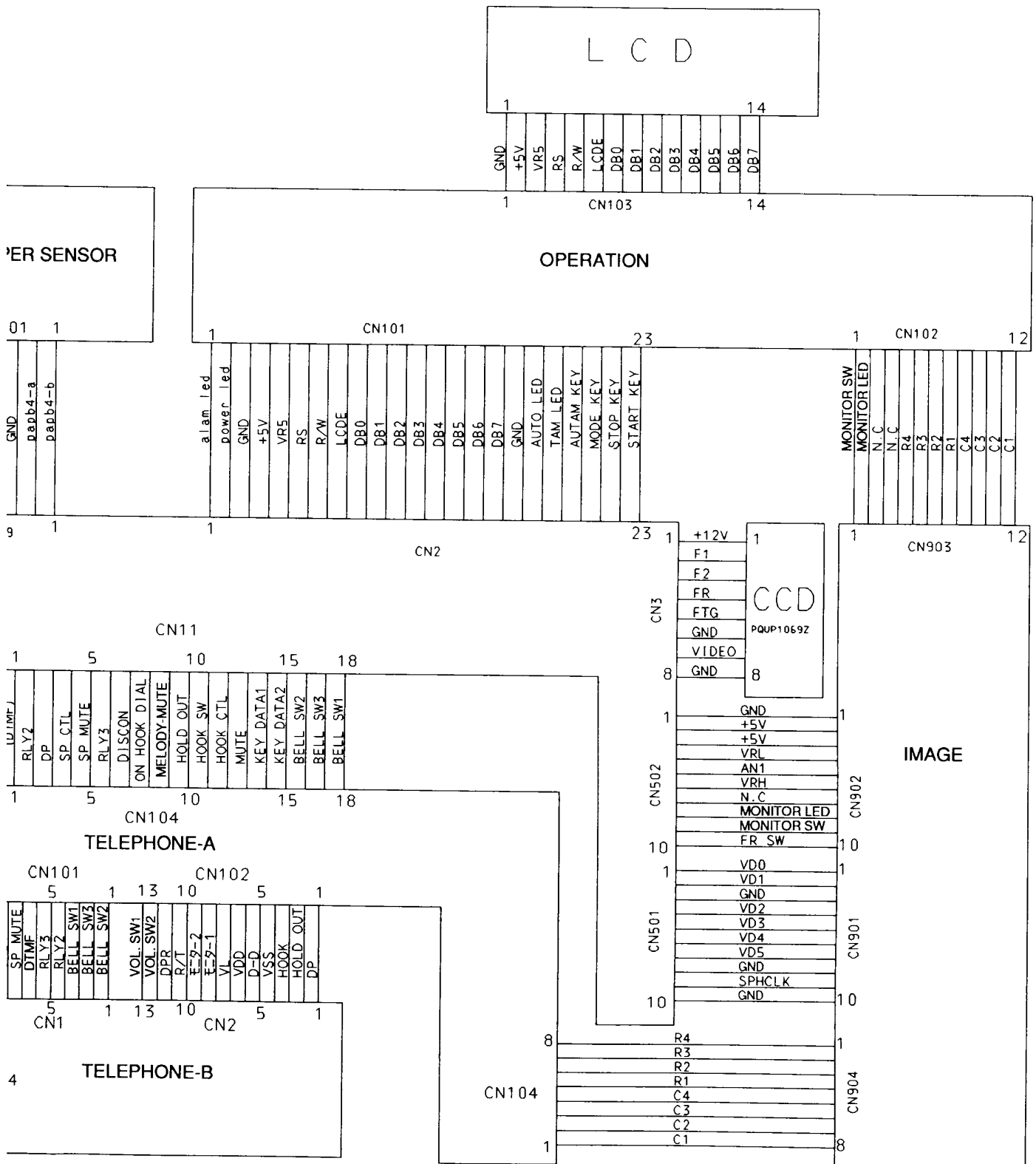


Fig. 2

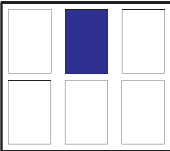


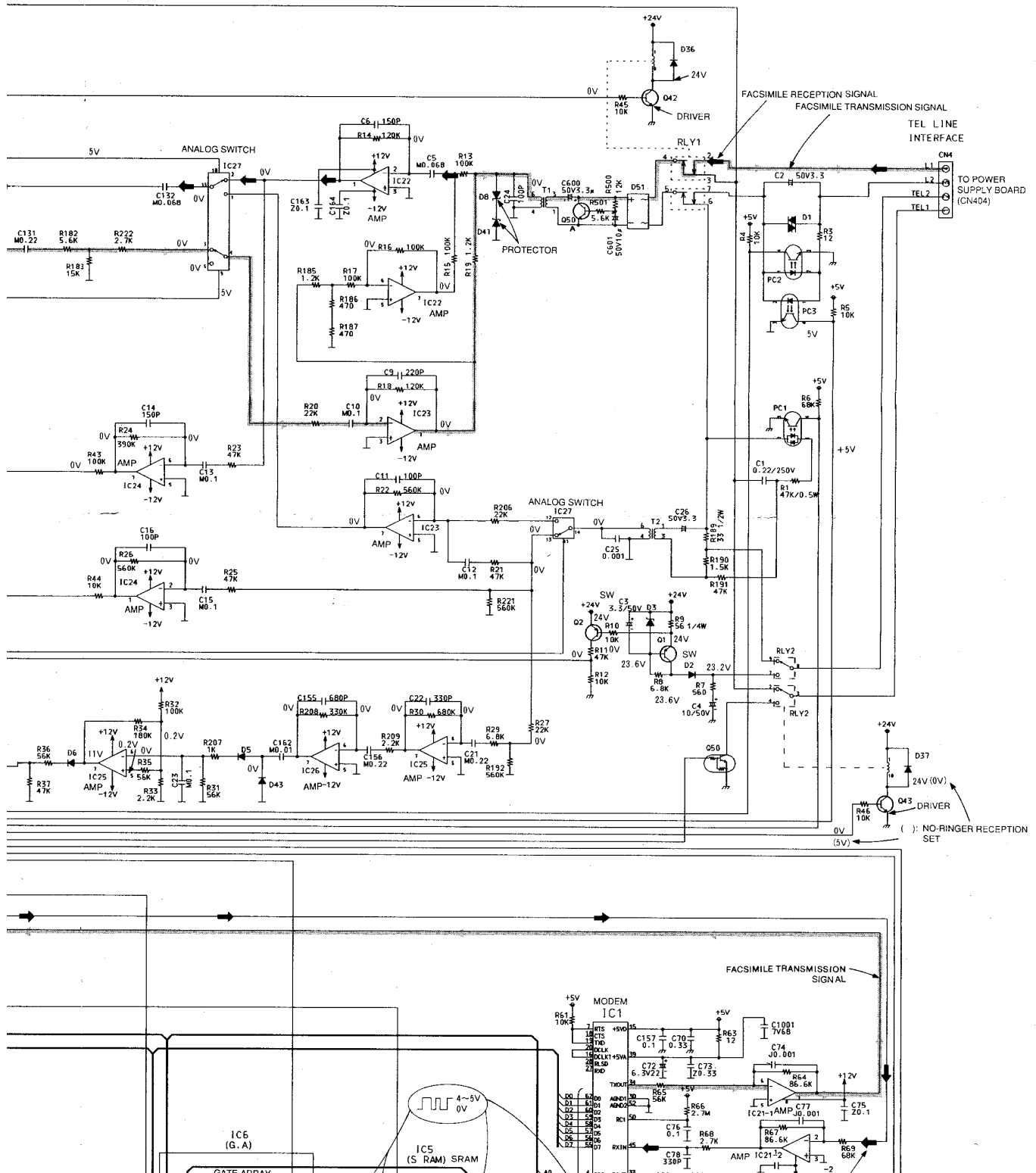
II Circuit Diagram



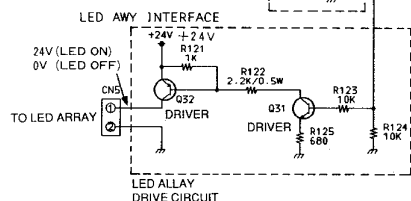
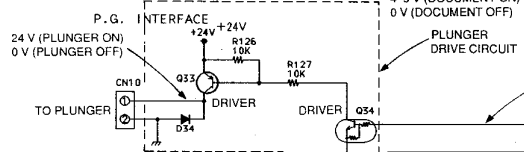
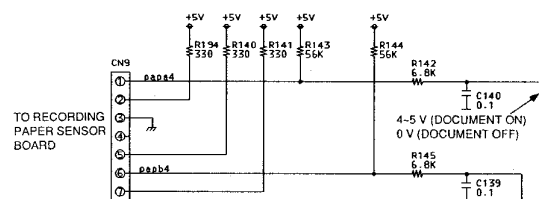
A vertical scale with labels E, F, G, H, I, J, K, L from top to bottom.



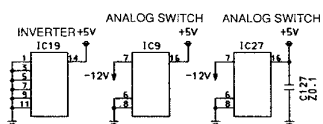
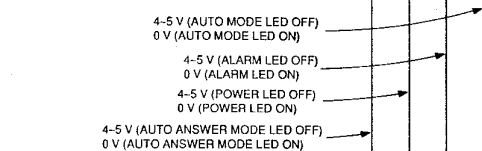
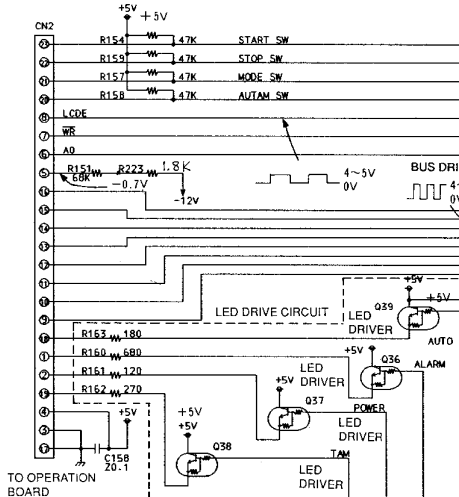




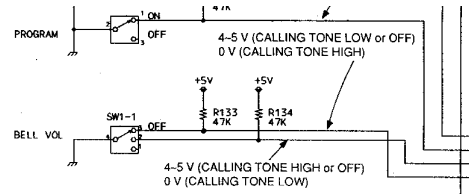
PAPER SENSOR INTERFACE



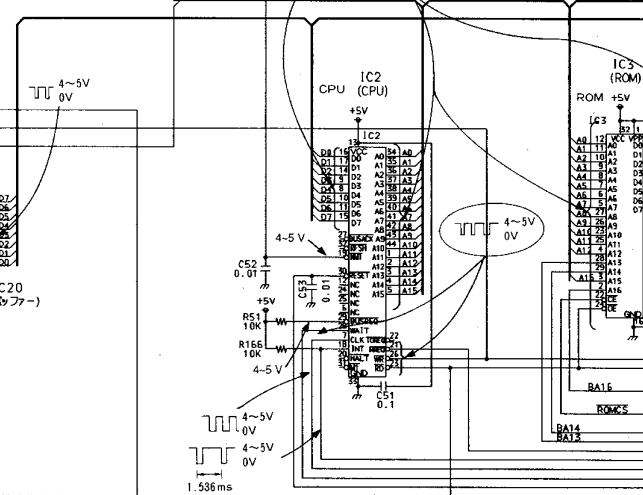
OPERATION INTERFACE



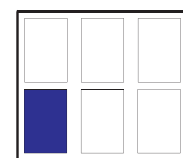
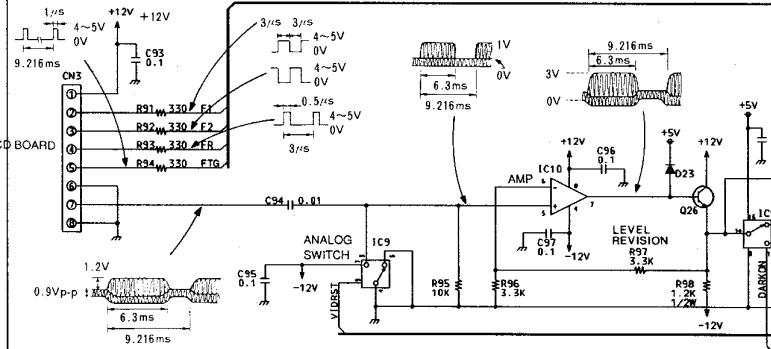
5V
 24V
 12V
 -12V

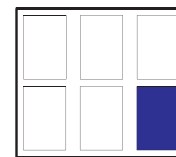
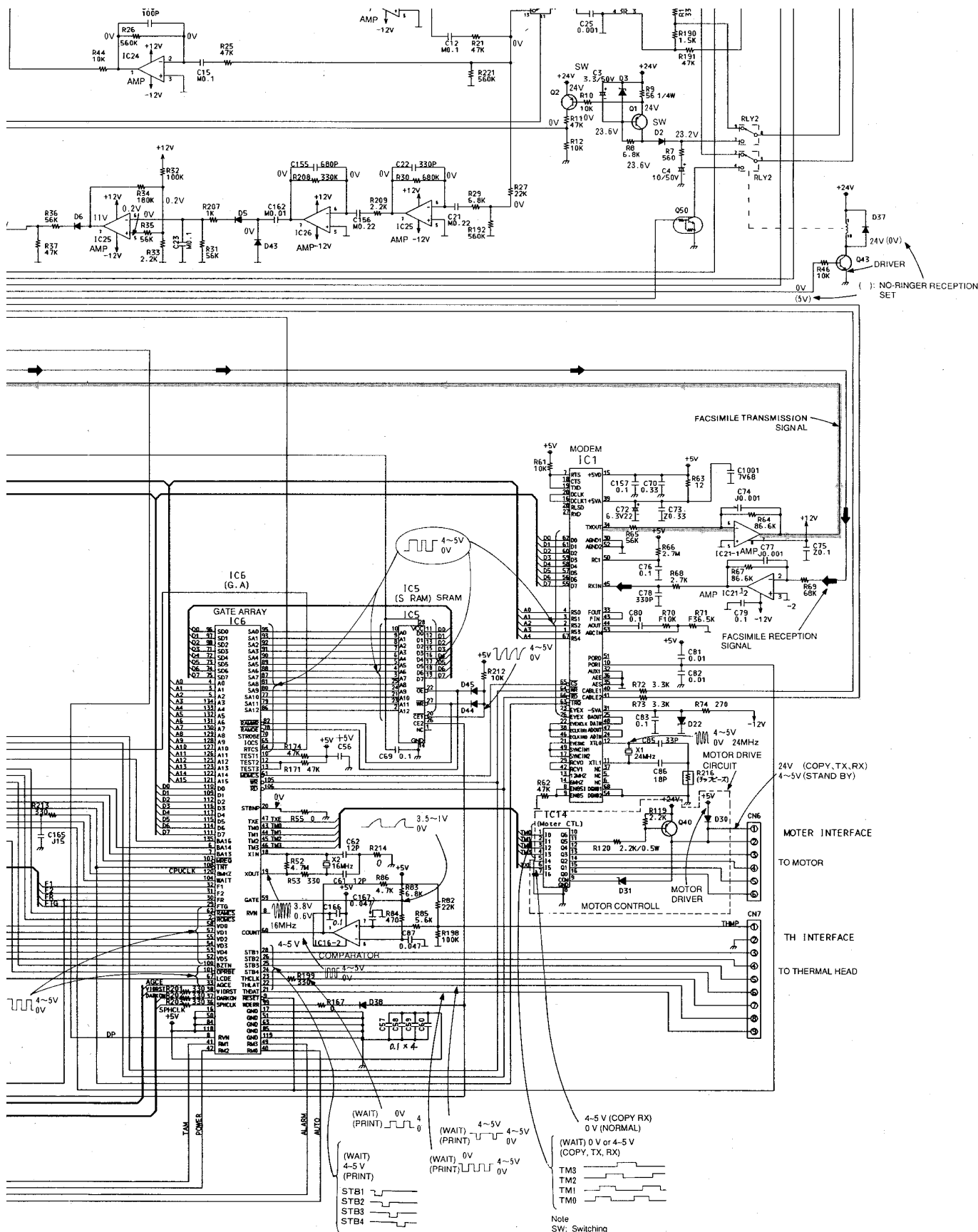


- 4-5 V (START KEY OFF)
- 0 V (START KEY ON)
- 4-5 V (STOP KEY OFF)
- 0 V (STOP KEY ON)
- 4-5 V (IMAGE QUALITY OFF)
- 0 V (IMAGE QUALITY ON)
- 4-5 V (RECEPTION SET KEY OFF)
- 0 V (RECEPTION SET KEY ON)



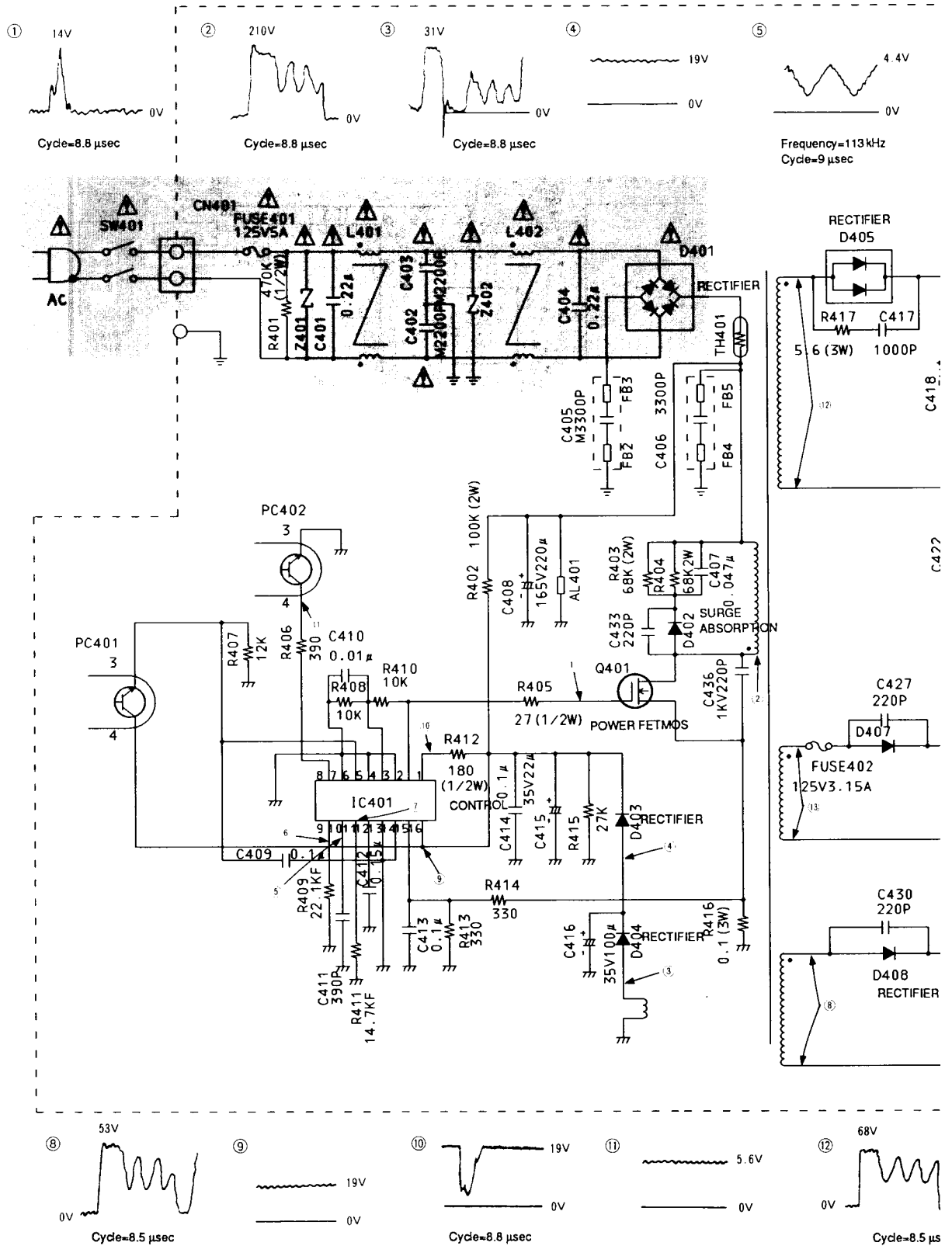
CCD INTERFACE



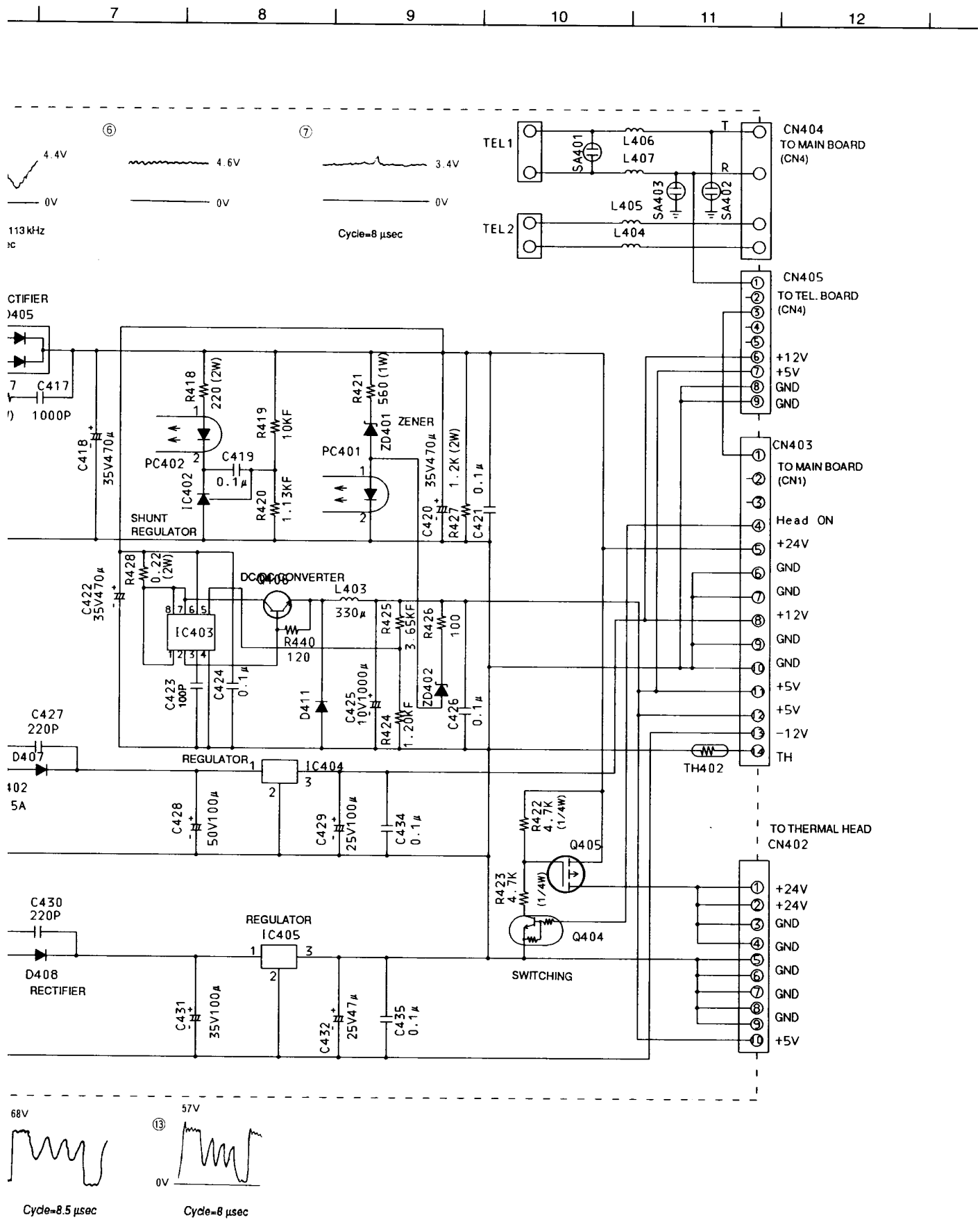


SCHEMATIC DIAGRAM

■ POWER SUPPLY CIRCUIT

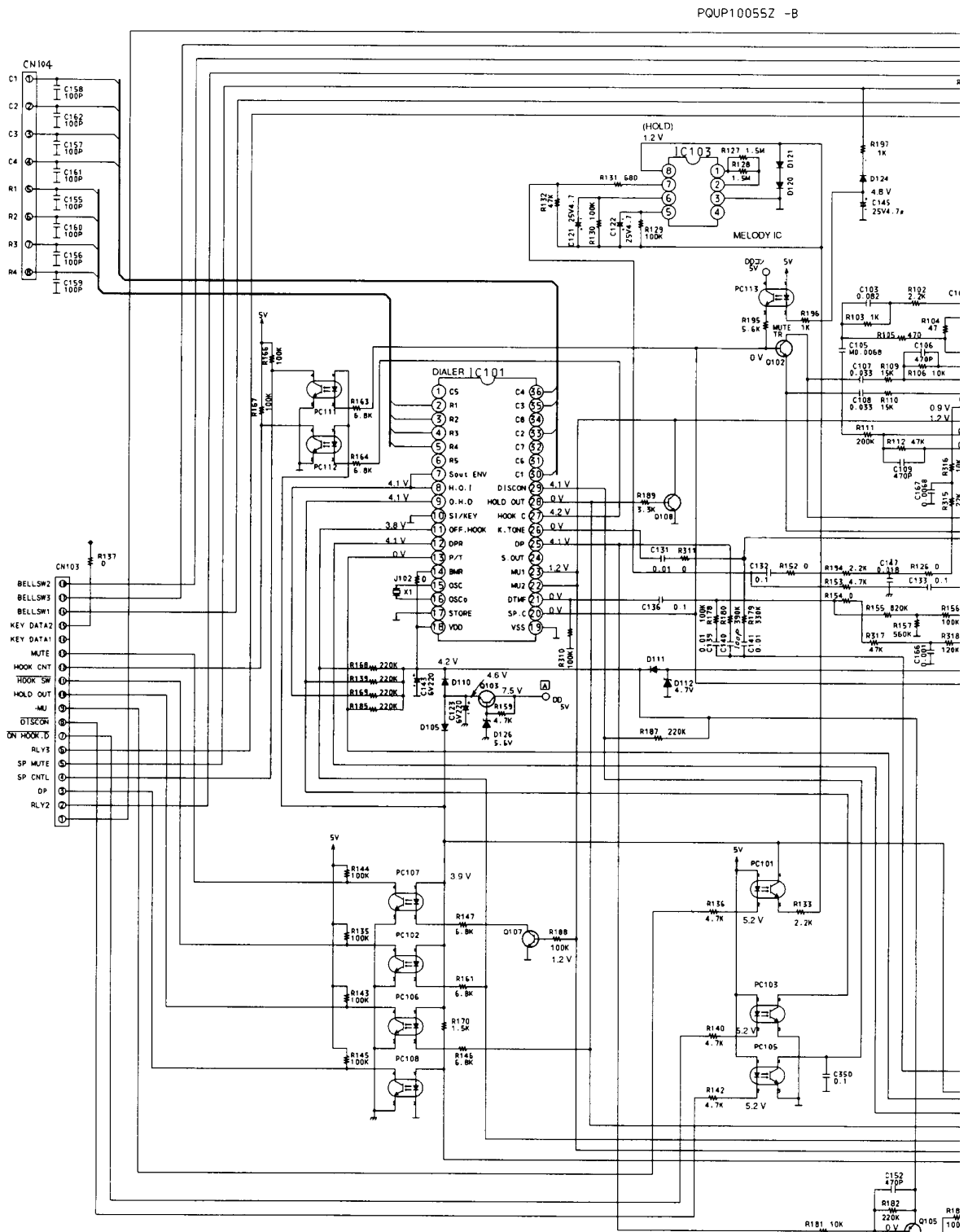


C DIAGRAM

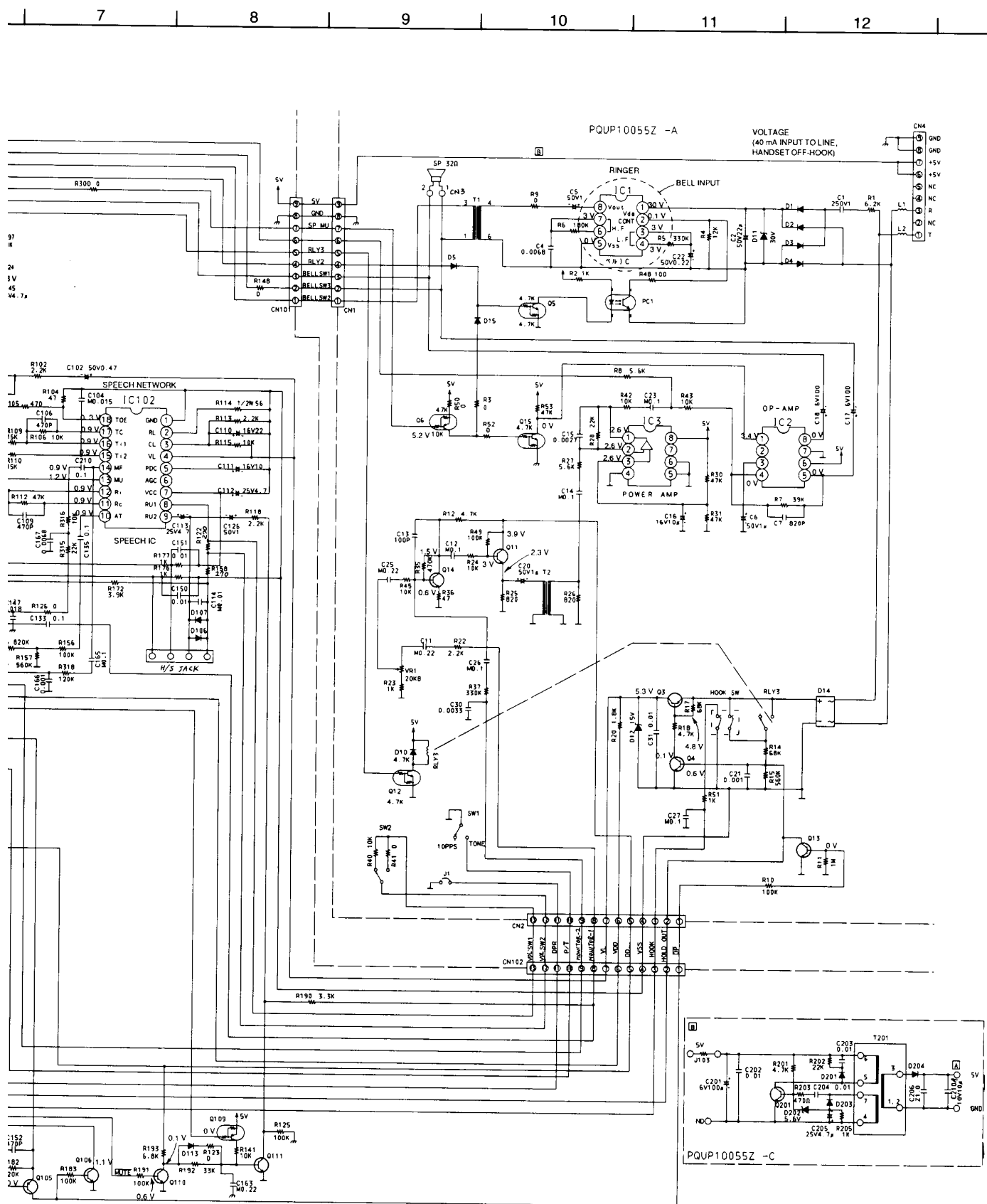


SCHEMATIC DIAG

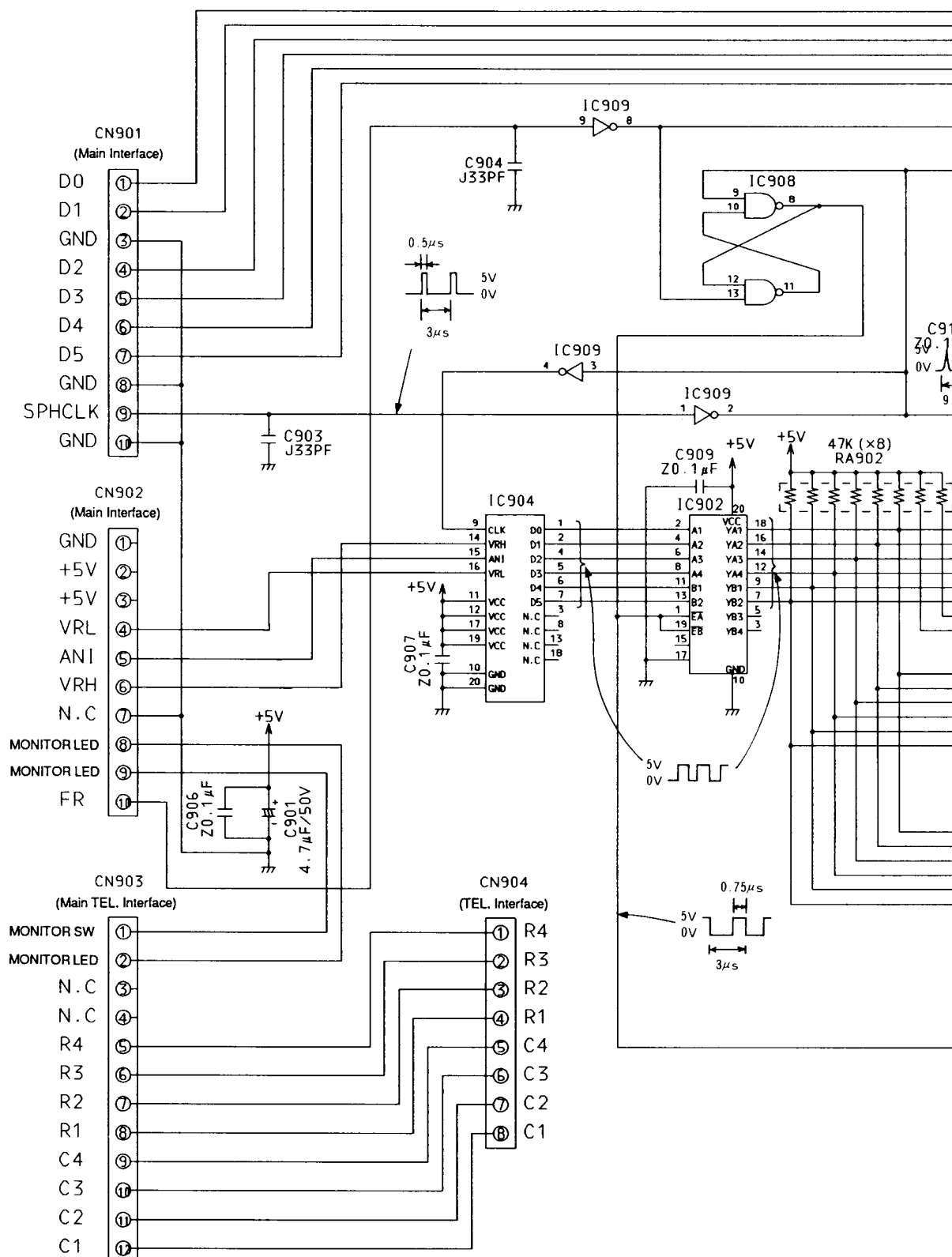
■ TELEPHONE CIRCUIT

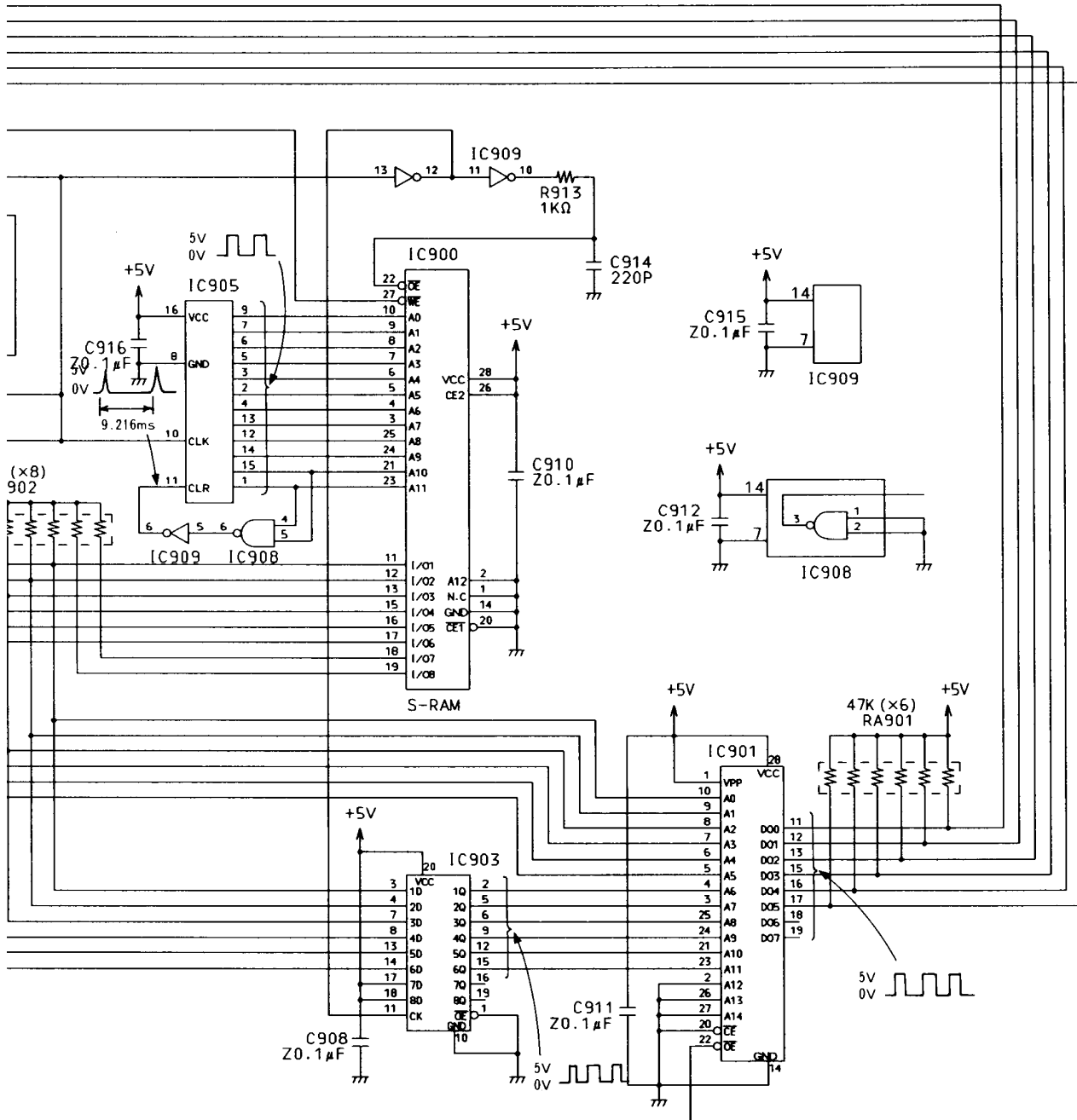


DIAGRAM

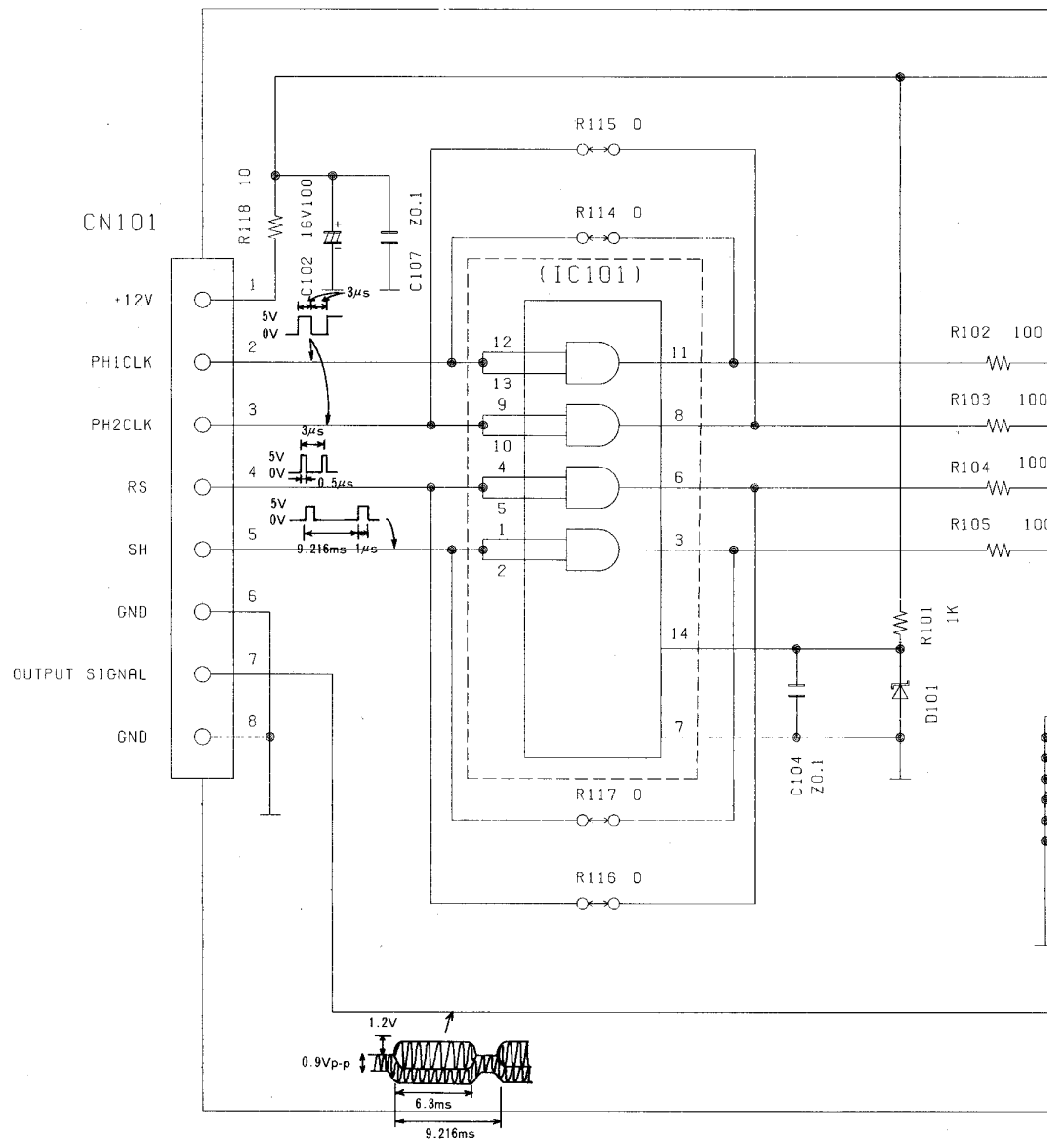


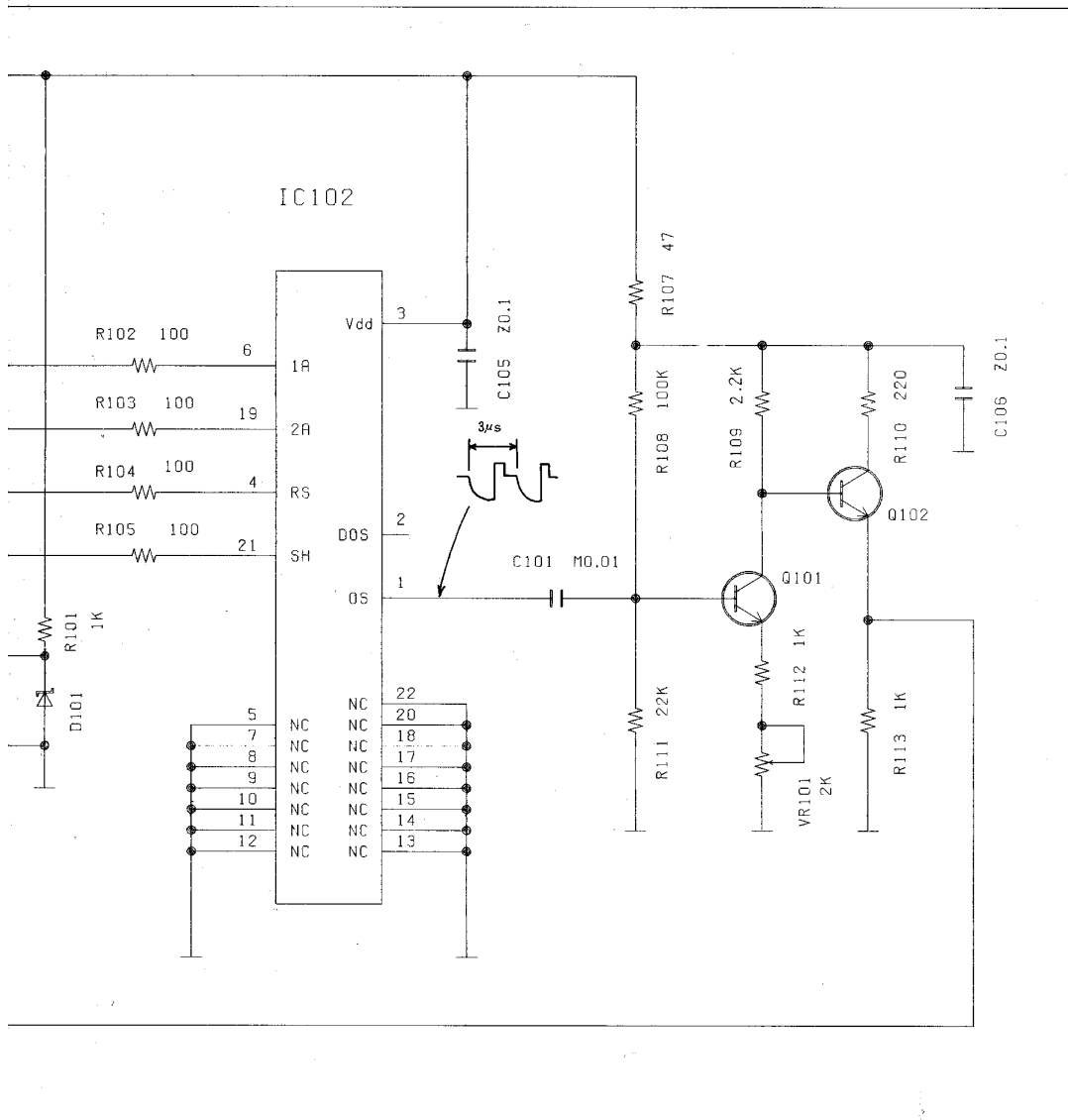
■ IMAGE CIRCUIT



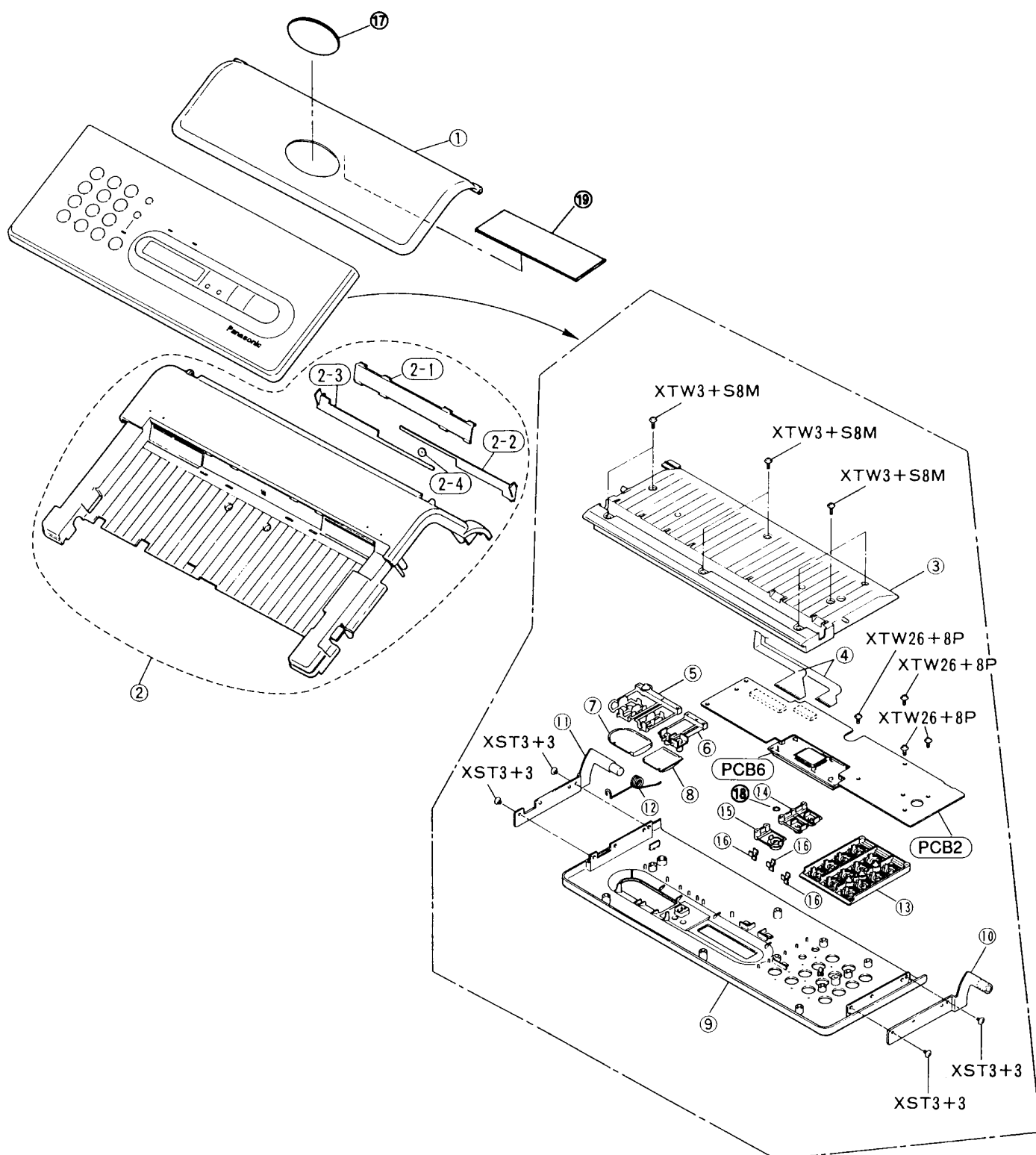


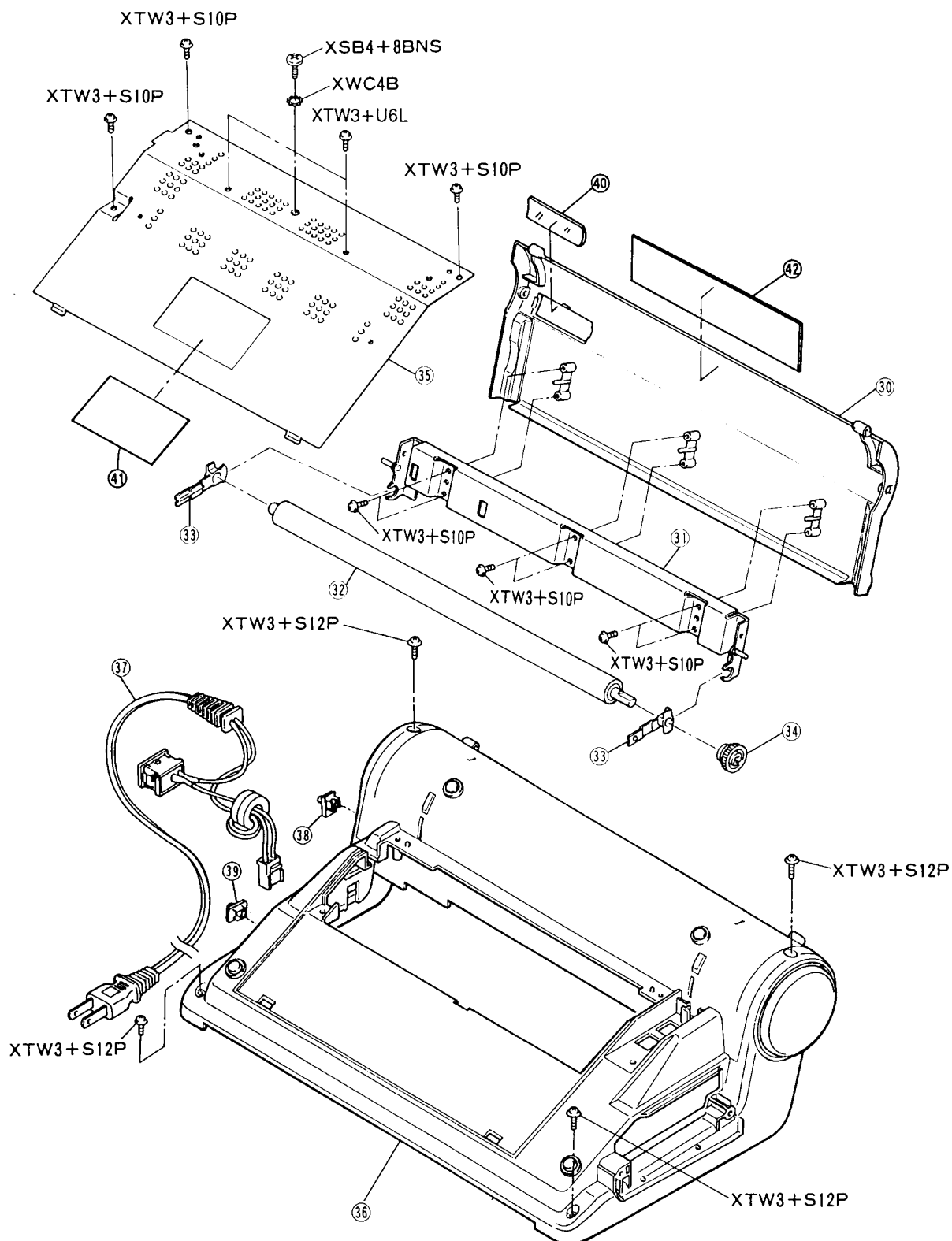
■ CCD CIRCUIT

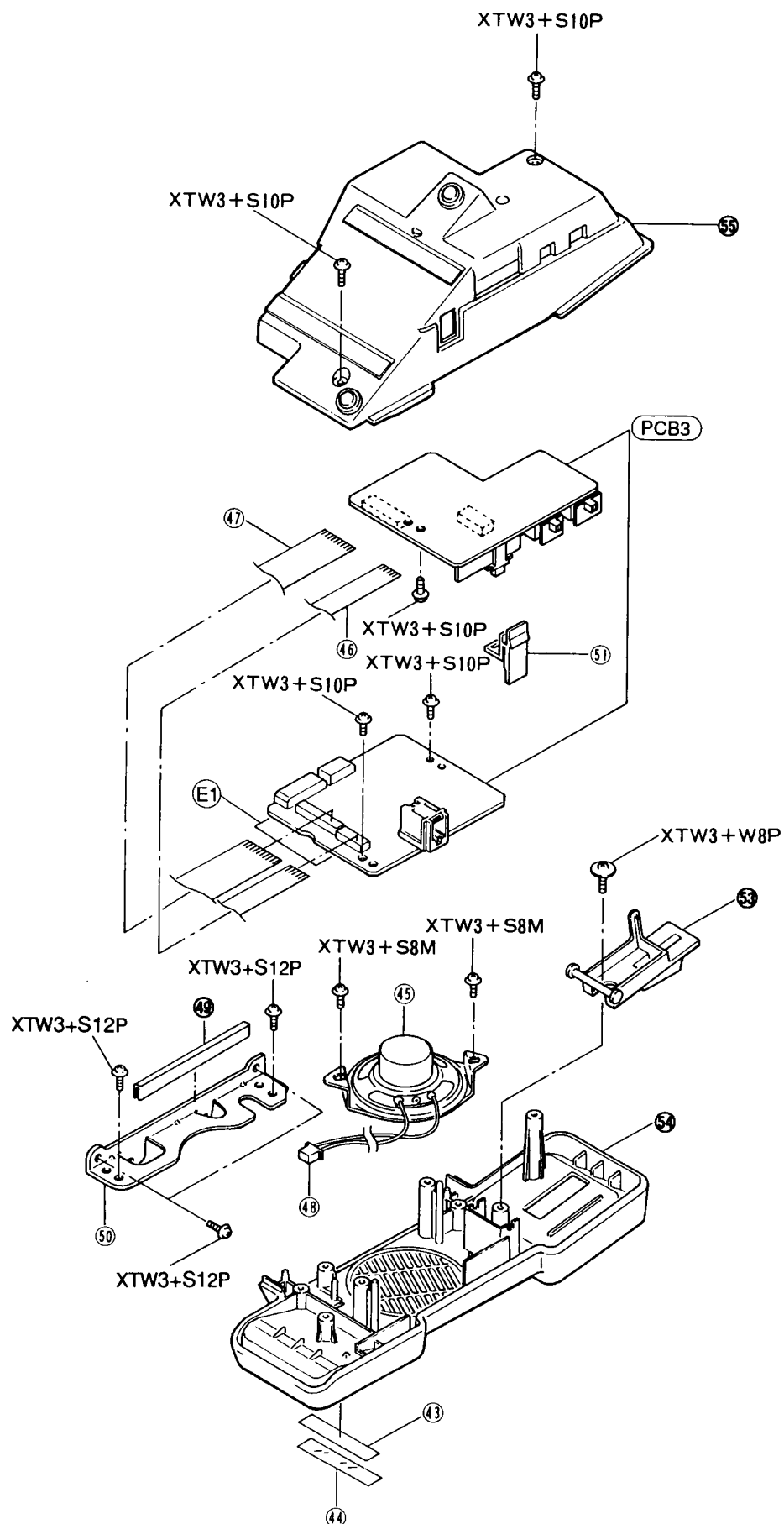


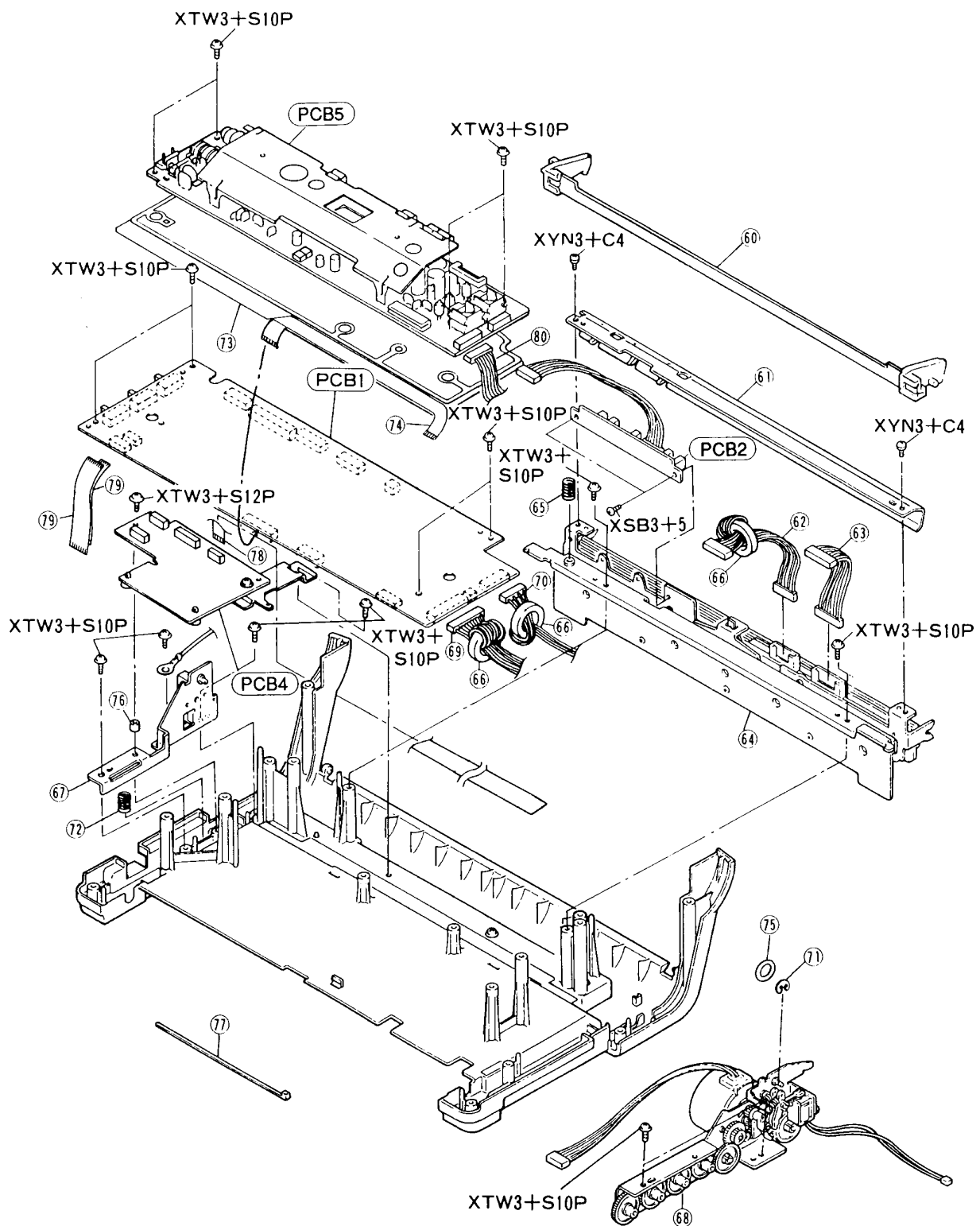


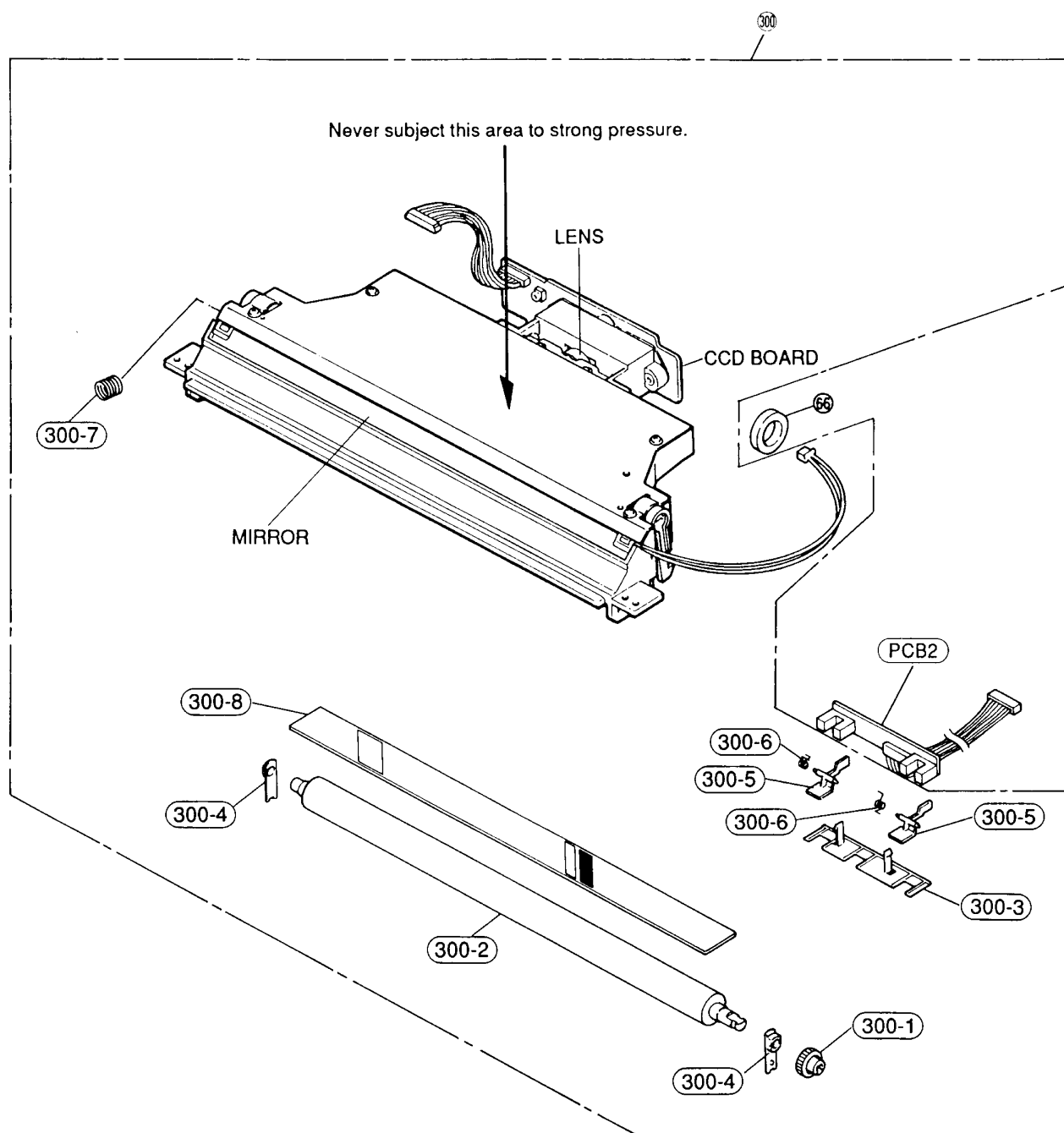
CABINET, MECHANICAL AND ELECTRICAL PARTS LOCATION





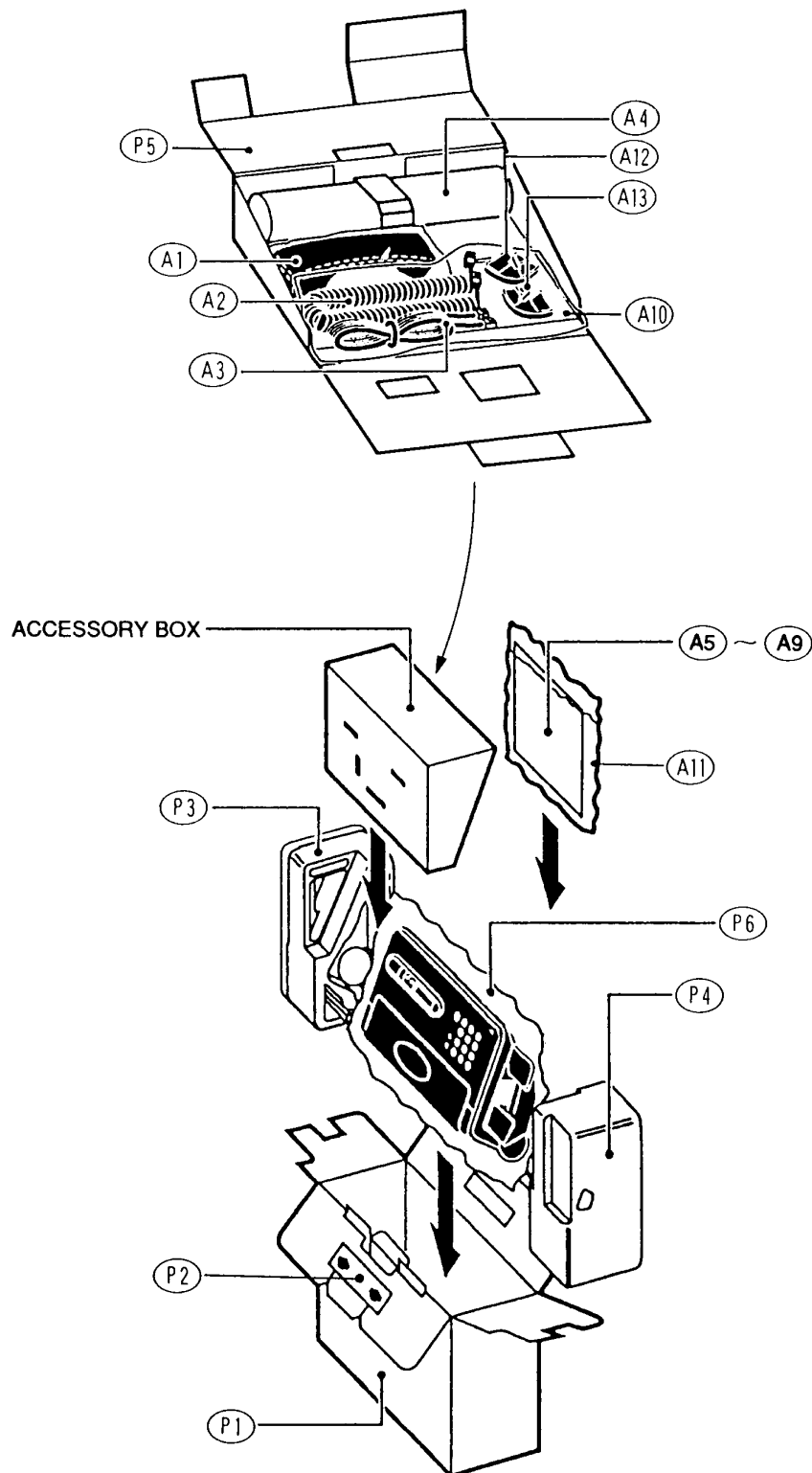




**Note:**

Be careful not to move the lens, mirror, or the CCD board, etc. Otherwise, the CCD will be out of adjustment.

ACCESSORIES AND PACKING MATERIALS



This Replacement List is Taiwan version only.
Refer to the simplified manual (cover) for other areas.

REPLACEMENT PARTS LIST				Ref. No.	Part No.	Part Name & Description	Pcs
Notes:				Model KX-F76			
1. RTL (Retention Time Limited)				42	PQQT10213Z	CAUTION LABEL-B	1
The marking (RTL) indicates that the Retention Time is limited for this item.				43	PQHP506Z	CARD, TEL.	1
After the discontinuation of this assembly In production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and In accordance with the laws governing part and product retention.				44	PQHR518Z	TRANSPARENT PLATE, TEL. CARD	1
After the end of this period, the assembly will no longer be available.				45	PQAS5P05Y	SPEAKER	1
2. Important safety notice				46	PQJE10009Z	FLAT CABLE, 9P	1
Components identified by the Δ mark special characteristics important for safety.				47	PQJE10010Z	FLAT CABLE, 13P	1
When replacing any of these components, use only manufacturer's specified parts.				48	PQJS2L103Z	CONNECTOR, 2P	1
3. The S mark indicates service standard parts and may differ from production parts.				49	PQHR10044Z	COVER	1
4. RESISTORS & CAPACITORS				50	PQMH10006Z	ANGLE	1
Unless otherwise specified,				51	PQBD10005Z	KNOB, VOLUME	1
All resistors are in ohms (Ω) K=1000 Ω , M=1000K Ω				53	PQBH10005Z	KNOB, HOOK	1
All capacitors are in MICRO FARADS (μ F) P= μ F				54	PQKM10010Z	HANDSET CRADLE, UPPER	1
*Type &Wattage of Resistor				55	PQYM2F76XTW	HANDSET CRADLE ASS'Y, LOWER	1
Type				60	PQZU1KXPW1	METAL PLATE, RECORDING PAPER COVER LOCK	1
ERC: Solid				61	PQZLKXPW1	LEVER, SENSOR	1
ERD: Carbon				62	PQJS9M44Y	CONNECTOR, 9P	1
PQRD: Chip				63	PQJS10M48Z	CONNECTOR, 10P	1
ERX: Metal Film				64	PQWEKXPW1	THERMAL HEAD ASS'Y	1
ERG: Metal Oxide				65	PQUS299Z	SPRING, THERMAL HEAD	1
ERO: Metal Film				66	PQLB1E1	CORE	2
ERF: Cement Resistor				67	PQZU2KXPW1	ANGLE, RECORDING COVER LOCK	1
Wattage				68	PQZEKXPW1	GEAR CHASSIS ASS'Y	1
10, 16: 1/8W				69	PQJS12R24Y	CONNECTOR, 12P	1
14, 25: 1/4W				70	PQJS4M33Z	CONNECTOR, 4P	1
12: 1/2W				71	XUC25FY	RETAINING RING	1
1: 1W				72	PQUS10004Z	SPRING	1
2: 2W				73	PQMX10003Z	INSULATOR SHEET	1
3: 3W				74	PQJE10008Z	FLAT CABLE, 18P	1
Type				75	PQNP10001Z	WASHER	1
ECFD: Semi-Conductor				76	PQHR10004Z	SPACER, IMAGE BOARD	1
ECQS: Styrol				77	PQHR10006Z	BAND, LEAD WIRE	1
PQCUV: Chip				78	PQJE10011Z	FLAT CABLE, 8P	1
ECQMS: Mica				79	PQJE10004Z	FLAT CABLE, 10P	2
ECCD, ECKD, ECBT, PQCBC: Ceramic				80	PQJS06R23Z	CONNECTOR, 6P	1
ECQE, ECQV, ECQG: Polyester							
ECEA, ECSZ: Electrolytic							
ECQP: Polypropylene							
Voltage							
ECQ Type							
ECQG Type							
ECSZ Type							
Others							
1H: 50V							
05: 50V							
0F: 3.15V							
0J: 6.3V							
1V: 35V							
50, 1H: 50V							
1A: 10V							
1C: 16V							
1J: 63V							
0J: 6.3V							
1E, 25: 25V							
2A: 100V							
Ref. No.	Part No.	Part Name & Description		Pcs			
CABINET, MECHANICAL AND ELECTRICAL PARTS							
1	PQKE114W	DOCUMENT TRAY		1			
2	PQYM1F76XTW	UPPER CABINET ASS'Y		1			
2-1	PQHR9711Y	COVER, GUIDE		1			
2-2	PQHR9710Z	GUIDE-R		1			
2-3	PQHR9709Z	GUIDE-L		1			
2-4	PQDG5078Z	GEAR		1			
3	PQUV126W	COVER, OPERATION PANEL		1			
4	PQUP10098Z	FLEXIBLE CABLE		1			
5	PQHR9729Y	PLASTIC PARTS, BUTTON		1			
6	PQBCX250Z	BUTTON, FUNCTION		1			
7	PQBC334T	BUTTON, START		1			
8	PQBC335T	BUTTON, STOP		1			
9	PQYGF76XTW	OPERATION PANEL ASS'Y		1			
10	PQHM174Z	ARM-R		1			
11	PQHM175Z	ARM-L		1			
12	PQUS10002Y	SPRING, ARM		1			
13	PQBCX10004Z	BUTTON, DIAL		1			
14	PQBCX10007Z	BUTTON, PAUSE/REDIAL		1			
15	PQBC10019Z	BUTTON, MONITOR		1			
16	PQGP10006Z	COVER, LED		3			
17	PQGK10004Y	ORNAMENT		1			
18	PQNW368Y	WASHER		1			
19	PQQT10214Z	CAUTION LABEL-A		1			
30	PQUV125Y	COVER, RECORDING PAPER		1			
31	PQMD2024X	ANGLE		1			
32	PQDN32Z	ROLLER, RECORDING PAPER FEED		1			
33	PQHR9718Z	SPACER, RECORDING PAPER ROLLER		2			
34	PQDG5075Z	GEAR		1			
35	PQMD2029X	ANGLE, BOTTOM		1			
36	PQYFF76XTW	LOWER CABINET ASS'Y		1			
37	PQWAF76XTW	POWER CORD ASS'Y		1			
38	PQYTKXPW1	KNOB, RECORDING PAPER COVER OPEN		1			
39	PQBD183Y	KNOB, FRONT LID OPEN		1			
40	PQGP155Z	PANEL, RECORDING PAPER		1			
41	PQGT10246Z	NAME PLATE		1			

CCD UNIT PARTS			
300	PQSGX017Y	CCD UNIT ASSY	1
300-1	PQDG5074Z	GEAR	1
300-2	PQDN31Z	ROLLER, DOCUMENT FEED	1
300-3	PQHR9713Z	COVER	1
300-4	PQHR10040Z	SPACER, DOCUMENT FEED ROLLER	2
300-5	PQHR9719Z	LEVER, DOCUMENT DETECT	2
300-6	PQUS315Z	SPRING, SENSOR LEVER	2
300-7	PQUS299Z	SPRING	1
300-8	PQOG4Z	GLASS	1
ACCESSORIES AND PACKING MATERIALS			
A1	PQJX2PDAG01Y	HANDSET	1
A2	PQJA212N	HANDSET CORD	1
A3	PQJA59V	TEL. CORD	1
A4	PQHP419Z	RECORDING PAPER	1
A5	PQX10121Z	INSTRUCTION BOOK	1
A6	PQW10127Z	MARK SHEET-1	1
A7	PQW10128Z	MARK SHEET-2	1
A8	PQW10129Z	MARK SHEET-3	1
A9	PQW10130Z	MARK SHEET-4	1
A10	XZB30X25A04	PROTECTION COVER (ACCESSORIES)	1
A11	XZB25X34A04	PROTECTION COVER (DOCUMENTS)	1
A12	PQHR9723Z	PARTING PLATE-A	1
A13	PQHR9724Z	PARTING PLATE-B	1
P1	PQPK10151Z	GIFT BOX	1
P2	PQPN935Z	HANDLE	1
P3	PQPN10038Z	CUSHION-L	1
P4	PQPN10039Z	CUSHION-R	1
P5	PQPN10065Z	ACCESSORY BOX	1
P6	PQPH79Z	PROTECTION COVER (UNIT)	1

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
MAIN BOARD PARTS							
PCB1	PQWP1F76XTW	MAIN BOARD ASSY (RTL)	1	SW1	PQSS3B10W	(SWITCHES) SWITCH, RINGER	1
				SW2	PQSS2A27W	SWITCH, PROGRAM	1
				SW3	PQSS2A27W	SWITCH, PAPER SAVE	1
IC1	PQVIR96MFXS	(ICs) IC	1				
IC2	PQVIZ8400L8V	IC	1			(TRANSFORMERS)	
IC3	PQWIF76XTW	IC	1	T1	ETA14Y85AY	COMMUNICATION TRANSFORMER	1
IC4, 5	PQVICX5864MC	IC	2	T2	PQLT8F5A	DTMF TRANSFORMER	1
IC6	PQVIE58R55F	IC	1				
IC7	PQVIRIP5C62	IC	1			(CRYSTAL OSCILLATORS & CERAMIC FILTER)	
IC8	PQVIM5195BL	IC	1	X1	PQVCJ2400N9Z	CRYSTAL OSCILLATOR	1
IC9	PQVITC4053BF	IC	1	X2	PQVCJ1600N9Z	CRYSTAL OSCILLATOR	1
IC10, 11, 12	PQVINJM082BM	IC	3	X3	PQVCL3276N6Z	CRYSTAL OSCILLATOR	1
IC14	PQVIBA12003	IC	1	X4	PQVBT4.19G2	CERAMIC FILTER	1
IC15	PQVI672191F	IC	1				
IC16	PQVINJM2901M	IC	1			(CAPACITORS)	
IC17	PQVIMT3274AE	IC	1	C1	ECQE2E224JZ	0.22	1
IC19	PQVIPD7HU04S	IC	1	C2	ECEA1HN3R3S	3.3	1
IC20	PQVIPD7H245G	IC	1	C3	ECEA1HU3R3	3.3	1
IC21-26	PQVINJM4558M	IC	6	C4	ECEA1HU100	10	1
IC27	PQVITC4053BF	IC	1	C5	PQCUV1C683MD	0.068	1
				C6	PQCUV1H151JC	150P	1
				C9	PQCUV1H221JC	220P	1
Q1	2SB1322	(TRANSISTORS) TRANSISTOR(SI)	1	C10	PQCUV1E104MD	0.1	1
Q2, 21	2SB1218A	TRANSISTOR(SI)	2	C11	PQCUV1H101JC	100P	1
Q22, 23, 24	PQVTDTC143E	TRANSISTOR(SI)	3	C12	PQCUV1E104MD	0.1	1
Q25	2SB1218A	TRANSISTOR(SI)	1	C13	PQCUV1E104MD	0.1	1
Q26-31	2SD1819A	TRANSISTOR(SI)	6	C14	PQCUV1H151JC	150P	1
Q32, 33	2SB1322	TRANSISTOR(SI)	2	C15	PQCUV1E104MD	0.1	1
Q34, 36-39	PQVTDTC143E	TRANSISTOR(SI)	5	C16	PQCUV1H101JC	100P	1
Q40	2SB1322	TRANSISTOR(SI)	1				
Q42, 43	2SD1994A	TRANSISTOR(SI)	2	C21	PQCUV1E224MD	0.22	1
Q50	PQVTDTC143E	TRANSISTOR(SI)	1	C22	PQCUV1H331JC	330P	1
Q50A	2SC2235	TRANSISTOR(SI)	1	C23	PQCUV1E104MD	0.1	1
Q51	PQVTDTA114YU	TRANSISTOR(SI)	1	C24	PQCUV1H101JC	100P	1
Q53, 54	2SD1819A	TRANSISTOR(SI)	2	C25	PQCUV1H102J	0.001	1
				C26	ECEA1HN3R3S	3.3	1
D1	PQVDSSV3SS	(DIODES) DIODE(SI)	1	C51	PQCUV1E104MD	0.1	1
D2	RLS71	DIODE(SI)	1	C52	PQCUV1H103KB	0.01	1
D3	PQVDHVS2B1	DIODE(SI)	1	C53	PQCUV1H103KB	0.01	1
D5, 6	RLS71	DIODE(SI)	2	C54	PQCUV1E104MD	0.1	1
D8	PQVDHVS2B1	DIODE(SI)	1	C56	PQCUV1E104MD	0.1	1
				C57	PQCUV1E104MD	0.1	1
D21	MA700A	DIODE(SI)	1	C58	PQCUV1E104MD	0.1	1
D22	MA4051	DIODE(SI)	1	C59	PQCUV1E104MD	0.1	1
D23	RLS71	DIODE(SI)	1				
D24	PQVDHVS3A1	DIODE(SI)	1	C60	PQCUV1E104MD	0.1	1
D25-29	RLS71	DIODE(SI)	5	C61	PQCUV1H120JC	12P	1
D30	1SS147	DIODE(SI)	1	C62	PQCUV1H120JC	12P	1
D31	MA7200	DIODE(SI)	1	C63	PQCUV1H180JC	18P	1
D34-37	RLS71	DIODE(SI)	4	C64	PQCUV1H180JC	18P	1
D38	MA723	DIODE(SI)	1	C65	PQCUV1E104MD	0.1	1
				C66	ECEA1HU4R7	4.7	1
D41	PQVDHVS2B1	DIODE(SI)	1	C67	ECUV1H334ZF	0.33	S 1
D43	RLS71	DIODE(SI)	1	C68	PQCUV1E104MD	0.1	1
D44, 45	MA723	DIODE(SI)	2	C69	PQCUV1E104MD	0.1	1
D51	PQVDS1YB40F1	DIODE(SI)	1				
				C70	ECUV1H334ZF	0.33	S 1
PC1	PQVIPC814K	(PHOTO ELECTRIC TRANSDUCERS) PHOTO COUPLER	1	C72	ECEB0JU220	22	1
PC2, 3	PQVIPC817CD	PHOTO COUPLER	2	C73	ECUV1H334ZF	0.33	S 1
				C74	PQCUV1H102J	0.001	1
				C75	PQCUV1E104MD	0.1	1
				C76	PQCUV1E104MD	0.1	1
				C77	PQCUV1H102J	0.001	1
				C78	PQCUV1H331JC	330P	1
				C79	PQCUV1E104MD	0.1	1
RLY1	PQSL76Z	(RELAYS) RELAY	1	C80	PQCUV1E104MD	0.1	1
RLY2	PQSL112Z	RELAY	1	C81	PQCUV1H103KB	0.01	1
				C82	PQCUV1H103KB	0.01	1

Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Value	Pcs
C83	PQCUV1E104MD	0.1	1	R1	ERDS1TJ473	(RESISTORS)	1
C85	PQCUV1H330JC	33P	1	R3	ERDS2TJ120	12	1
C86	PQCUV1H180JC	18P	1	R4	PQ4R10XJ103	10K	1
C87	PQCUV1E473MD	0.047	1	R5	PQ4R10XJ103	10K	1
C88	PQCUV1E104MD	0.1	1	R6	PQ4R10XJ683	68K	1
C89	ECEA1EU470	47	S 1	R7	PQ4R10XJ561	560	1
C90	PQCUV1E104MD	0.1	1	R8	PQ4R10XJ682	6.8K	1
C91	PQCUV1E104MD	0.1	1	R9	ERDS2TJ560	56	1
C92	PQCUV1E104MD	0.1	1				
C93	PQCUV1E104MD	0.1	1	R10	PQ4R10XJ103	10K	1
C94	PQCUV1H103KB	0.01	1	R11	PQ4R10XJ473	47K	1
C95	PQCUV1E104MD	0.1	1	R12	PQ4R10XJ103	10K	1
C96	PQCUV1E104MD	0.1	1	R13	PQ4R10XJ104	100K	1
C97	PQCUV1E104MD	0.1	1	R14	PQ4R10XJ124	120K	1
C98	PQCUV1E104MD	0.1	1	R15	PQ4R10XJ104	100K	1
C99	PQCUV1E104MD	0.1	1	R16	PQ4R10XJ104	100K	1
				R17	PQ4R10XJ104	100K	1
C100	PQCUV1H101JC	100P	1	R18	PQ4R10XJ124	120K	1
C101	PQCUV1E104MD	0.1	1	R19	PQ4R10XJ122	1.2K	1
C102	PQCUV1E104MD	0.1	1				
C103	PQCUV1H101JC	100P	1	R20	PQ4R10XJ223	22K	1
C104	PQCUV1H103KB	0.01	1	R21	PQ4R10XJ473	47K	1
C105	ECEA1EU101	100	S 1	R22	PQ4R10XJ564	560K	1
C106	PQCUV1H682KB	0.0068	1	R23	PQ4R10XJ473	47K	1
C107	PQCUV1E104MD	0.1	1	R24	PQ4R10XJ394	390K	1
C108	PQCUV1E104MD	0.1	1	R25	PQ4R10XJ473	47K	1
C109	PQCUV1E104MD	0.1	1	R26	PQ4R10XJ564	560K	1
				R27	PQ4R10XJ223	22K	1
C111, 115, 116	PQCUV1E104MD	0.1	3	R29	PQ4R10XJ682	6.8K	1
C118	ECEA1VU221	220	1				
C119	ECEA1EU101	100	S 1	R30	PQ4R10XJ684	680K	1
				R31	PQ4R10XJ563	56K	1
C120	ECEA1AU221	220	S 1	R32	PQ4R10XJ104	100K	1
C121	ECEA1EU101	100	S 1	R33	PQ4R10XJ222	2.2K	1
C122	PQCUV1E104MD	0.1	1	R34	PQ4R10XJ184	180K	1
C123	PQCUV1E104MD	0.1	1	R35	PQ4R10XJ563	56K	1
C124	PQCUV1E104MD	0.1	1	R36	PQ4R10XJ563	56K	1
C125, 127	PQCUV1E104MD	0.1	2	R37	PQ4R10XJ473	47K	1
C131	PQCUV1E224MD	0.22	1	R43,	PQ4R10XJ104	100K	1
C132	PQCUV1C683MD	0.068	1	R44, 45, 46	PQ4R10XJ103	10K	3
C136	PQCUV1E104MD	0.1	1				
C137	PQCUV1E104MD	0.1	1	R51	PQ4R10XJ103	10K	1
C138	PQCUV1E104MD	0.1	1	R52	PQ4R10XJ475	4.7M	1
C139	PQCUV1E104MD	0.1	1	R53	PQ4R10XJ331	330	1
				R55	PQ4R10XJ000	0	1
C140	PQCUV1E104MD	0.1	1	R56	PQ4R10XJ222	2.2K	1
				R57	PQ4R10XJ472	4.7K	1
C155	PQCUV1H681JC	680P	1	R58	PQ4R10XJ472	4.7K	1
C156	PQCUV1E224MD	0.22	1	R59	PQ4R10XJ103	10K	1
C157	PQCUV1E104MD	0.1	1				
C158	PQCUV1E104MD	0.1	1	R60	PQ4R10XJ333	33K	1
C159	PQCUV1E104MD	0.1	1	R61	PQ4R10XJ103	10K	1
				R62	PQ4R10XJ473	47K	1
C162	PQCUV1H103KB	0.01	1	R63	ERD25TJ120	12	1
C163	PQCUV1E104MD	0.1	1	R64	ER016CKF8662	86.6K	1
C164	PQCUV1E104MD	0.1	1	R65	PQ4R10XJ563	56K	1
C165	PQCUV1H150JC	15P	1	R66	PQ4R10XJ275	2.7M	1
C166	PQCUV1E104MD	0.1	1	R67	ER016CKF8662	86.6K	1
C167	PQCUV1E473MD	0.047	1	R68	PQ4R10XJ272	2.7K	1
				R69	PQ4R10XJ683	68K	1
C172	PQCUV1H103KB	0.01	1	R70	ER016CKF1002	10K	1
C177	PQCUV1H332KB	0.0033	1	R71	ER016CKF3652	36.5K	1
C178	PQCUV1H103KB	0.01	1	R72	PQ4R10XJ332	3.3K	1
				R73	PQ4R10XJ332	3.3K	1
C200	PQCUV1E104MD	0.1	1	R74	ERD25TJ271	270	1
				R75	PQ4R10XJ222	2.2K	1
C600	ECEA1HU3R3	3.3	1	R76	PQ4R10XJ562	5.6K	1
C601	ECEA1HU100	10	1	R77	PQ4R10XJ222	2.2K	1
				R78	PQ4R10XJ472	4.7K	1
C1001	ECSTCM0JD686	68	1	R79	PQ4R10XJ154	150K	1
				R80	PQ4R10XJ152	1.5K	1
				R81	PQ4R10XJ000	0	1
				R82	PQ4R10XJ223	22K	1

Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
R83	PQ4R10XJ682	6.8K	1	R164	PQ4R10XJ101	100	1
R84	PQ4R10XJ471	470	1	R165	PQ4R10XJ682	6.8K	1
R85	PQ4R10XJ562	5.6K	1	R166	PQ4R10XJ103	10K	1
R86	PQ4R10XJ472	4.7K	1	R167	PQ4R10XJ000	0	1
R87	PQ4R10XJ103	10K	1				
R88	PQ4R10XJ332	3.3K	1	R171	PQ4R10XJ473	47K	1
R89	PQ4R10XJ182	1.8K	1	R172	PQ4R10XJ000	0	1
				R174	PQ4R10XJ473	47K	1
R90	PQ4R10XJ223	22K	1	R179	PQ4R10XJ331	330	1
R91	PQ4R10XJ331	330	1				
R92	PQ4R10XJ331	330	1	R180	PQ4R10XJ331	330	1
R93	PQ4R10XJ331	330	1	R181	PQ4R10XJ331	330	1
R94	PQ4R10XJ331	330	1	R182	PQ4R10XJ562	5.6K	1
R95	PQ4R10XJ103	10K	1	R183	PQ4R10XJ153	15K	1
R96	PQ4R10XJ332	3.3K	1	R185	PQ4R10XJ122	1.2K	1
R97	PQ4R10XJ332	3.3K	1	R186	PQ4R10XJ471	470	1
R98	ERDS1TJ122	1.2K	1	R187	PQ4R10XJ471	470	1
R99	PQ4R10XJ222	2.2K	1	R189	ERDS1TJ330	33	1
R100	ERD25TJ331	330	1	R190	PQ4R18XJ152	1.5K	1
R101	PQ4R10XJ332	3.3K	1	R191	PQ4R18XJ473	47K	1
R102	PQ4R10XJ682	6.8K	1	R192	PQ4R10XJ564	560K	1
R103	PQ4R10XJ472	4.7K	1	R194	PQ4R10XJ331	330	1
R104	PQ4R10XJ103	10K	1	R197	PQ4R10XJ473	47K	1
R105	PQ4R10XJ101	100	1	R198	PQ4R10XJ104	100K	1
R106	PQ4R10XJ222	2.2K	1	R199	PQ4R10XJ331	330	1
R107	PQ4R10XJ182	1.8K	1				
R108	ER016CKF1201	1.2K	1	R201	PQ4R10XJ331	330	1
R109	PQ4R10XJ223	22K	1	R202	PQ4R10XJ331	330	1
				R203	PQ4R10XJ331	330	1
R110	PQ4R10XJ103	10K	1	R206	PQ4R10XJ223	22K	1
R111	PQ4R10XJ103	10K	1	R207	PQ4R10XJ102	1K	1
R112	ER016CKF1801	1.8K	1	R208	PQ4R10XJ334	330K	1
R113	PQ4R10XJ102	1K	1	R209	PQ4R10XJ222	2.2K	1
R114	PQ4R10XJ101	100	1				
R115	PQ4R10XJ151	150	1	R212	PQ4R10XJ103	10K	1
R116	PQ4R10XJ272	2.7K	1	R213	PQ4R10XJ331	330	1
R117	PQ4R10XJ272	2.7K	1	R214	PQ4R18XJ000	0	1
R118	ER016CKF1501	1.5K	1	R215	PQ4R10XJ471	470	1
R119	PQ4R10XJ222	2.2K	1	R216	PQLQR1ET	COIL	1
R120	ERDS1TJ222	2.2K	1	R221	PQ4R10XJ564	560K	1
R121	PQ4R10XJ102	1K	1	R222	PQ4R10XJ272	2.7K	1
R122	ERDS1TJ222	2.2K	1	R223	PQ4R10XJ183	18K	1
R123	PQ4R10XJ103	10K	1	R225	PQ4R18XJ000	0	1
R124	PQ4R10XJ103	10K	1				
R125	PQ4R10XJ681	680	1	R236	PQ4R10XJ103	10K	1
R126	PQ4R10XJ103	10K	1	R237	PQ4R10XJ330	33	1
R127	PQ4R10XJ103	10K	1	R238	PQ4R10XJ330	33	1
				R239	PQ4R10XJ471	470	1
R131	PQ4R10XJ473	47K	1				
R132	PQ4R10XJ473	47K	1	R240	PQ4R10XJ472	4.7K	1
R133	PQ4R10XJ473	47K	1	R241	PQ4R10XJ473	47K	1
R134	PQ4R10XJ473	47K	1	R242	PQ4R10XJ564	560K	1
R135	PQ4R10XJ563	56K	1				
R136	PQ4R10XJ682	6.8K	1	R500	PQ4R10XJ123	12K	1
R137	PQ4R10XJ563	56K	1	R501	PQ4R10XJ562	5.6K	1
R138	PQ4R10XJ563	56K	1				
R139	PQ4R10XJ682	6.8K	1				
R140	PQ4R10XJ331	330	1	BA1	BR2032/1HF1	(BATTERY & CONNECTORS) LITHIUM BATTERY	1
R141	PQ4R10XJ331	330	1				
R142	PQ4R10XJ682	6.8K	1	CN1	PQJP13A12Z	CONNECTOR, 13P	1
R143	PQ4R10XJ563	56K	1	CN2	PQJS23X59Z	CONNECTOR, 23P	1
R144	PQ4R10XJ563	56K	1	CN3	PQJP8G100Z	CONNECTOR, 8P	1
R145	PQ4R10XJ682	6.8K	1	CN4	PQJP4G91Z	CONNECTOR, 4P	1
				CN5	PQJP2D121Z	CONNECTOR, 2P	1
R151	PQ4R10XJ683	68K	1	CN6	PQJP6D121Z	CONNECTOR, 6P	1
R154	PQ4R10XJ473	47K	1	CN7	PQJP9G30Z	CONNECTOR, 9P	1
R157	PQ4R10XJ473	47K	1	CN8	PQJP7G90Z	CONNECTOR, 7P	1
R158	PQ4R10XJ473	47K	1	CN9	PQJP7G100Z	CONNECTOR, 7P	1
R159	PQ4R10XJ473	47K	1	CN10	PQJP2G100Z	CONNECTOR, 2P	1
				CN11	PQJS18R02Z	CONNECTOR, 18P	1
R160	PQ4R10XJ681	680	1	CN501, 502	PQJS10A01Z	CONNECTOR, 10P	2
R161	PQ4R10XJ121	120	1				
R162	PQ4R10XJ271	270	1				
R163	PQ4R10XJ181	180	1				

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs		
OPERATION BOARD PARTS				Q102	PQVTBB1A4A	TRANSISTOR(SI)	1		
PCB2	PQWP2F76XTW	OPERATION BOARD ASS'Y (RTL)	1	Q103	2SD1994A	TRANSISTOR(SI)	1		
		(DIODES)		Q105	2SB1218A	TRANSISTOR(SI)	1		
		LED1	PQVDGL1D11E	LED	1	Q106, 107	2SD1819A	TRANSISTOR(SI)	S 2
		LED2	PQVDGL1E11C	LED	1	Q108	PQVTBB1A4A	TRANSISTOR(SI)	1
		LED3	LN376GCPX	LED	1	Q109	PQVTDTA114YU	TRANSISTOR(SI)	1
		LED4	LN876RCPX	LED	1	Q110, 111	2SD1819A	TRANSISTOR(SI)	S 2
		LED5	PQVDGL1D11E	LED	1	Q201	2SD1994A	TRANSISTOP(SI)	1
					1				
				(PHOTO ELECTRIC TRANSDUCERS)		D1, 2	1SS131	DIODE(SI)	2
				SENSOR,	S 4	D3	RLS71	DIODE(SI)	1
PC201, 203 .301, 303	PQVIPS4506			D4	1SS131	DIODE(SI)	1		
		(SWITCHES)		D5, 10	RLS71	DIODE(SI)	2		
SW1	EVQ22405K	SWITCH,	1	D11	MA4300	DIODE(SI)	1		
SW2	EVQ22405K	SWITCH,	1	D12	MA4150	DIODE(SI)	1		
SW3	EVQ22405K	SWITCH,	1	D14	PQVD0R5G4B42	DIODE(SI)	1		
SW4	EVQ22405K	SWITCH,	1	D15	RLS71	DIODE(SI)	1		
SW5	EVQ22405K	SWITCH,	1	D105, 106, 107 .110	RLS71	DIODE(SI)	4		
SW6	PQSH1A43Z	SWITCH,	1	D111	MA700A	DIODE(SI)	1		
SW7	PQSH1A43Z	SWITCH,	1	D112	PQVDMTZ4R7	DIODE(SI)	1		
SW8	PQSH1A43Z	SWITCH,	1	D113, 120, 121	RLS71	DIODE(SI)	3		
SW9	PQSH1A43Z	SWITCH,	1	D124	1SS131	DIODE(SI)	1		
SW10	PQSH1A43Z	SWITCH,	1	D126	PQVDMTZ5R6	DIODE(SI)	1		
SW11	PQSH1A43Z	SWITCH,	1	D201	RLS71	DIODE(SI)	1		
SW12	PQSH1A43Z	SWITCH,	1	D202	PQVDR LZ5R6	DIODE(SI)	1		
SW13	PQSH1A43Z	SWITCH,	1	D203	RLS71	DIODE(SI)	1		
SW14	PQSH1A43Z	SWITCH,	1	D204	PQVDAK04A	DIODE(SI)	1		
SW15	EVQ22405K	SWITCH,	1			(COILS)			
SW16	PQSH1A43Z	SWITCH,	1	L1, 2	PQLE106	COIL	2		
SW17	PQSH1A43Z	SWITCH,	1			(PHOTO ELECTRIC TRANSDUCERS)			
SW18	PQSH1A43Z	SWITCH,	1	PC1	PQVIPC357C	PHOTO COUPLER	1		
SW19	EVQ22405K	SWITCH,	1	PC101, 102, 103 .105, 106, 107 .108, 111, 112 .113	PQVIPC357C	PHOTO COUPLER	10		
CN1, 2	PQJS7R40Z	(CONNECTORS) CONNECTOR, 7P	2			(RELAY)			
CN101	PQJS23X62Z	CONNECTOR, 23P	1	RLY3	PQSL29Z	RELAY	1		
CN102	PQJS12X62Z	CONNECTOR, 12P	1			(SWITCHES)			
CN103	PQJP14G105Z	CONNECTOR, 14P	1	SW1	PQSS2A27W	SWITCH, TONE/PULSE	1		
CN104, 105	PQJP2G105Z	CONNECTOR, 2P	2	SW2	PQSS2A27W	SWITCH, VOLUME	1		
TELEPHONE BOARD PARTS				SW3	ESE14A211	SWITCH, HOOK	1		
PCB3	PQWP3F76XTW	TELEPHONE BOARD PARTS (RTL)	1			(TRANSFORMERS)			
		(ICs)		T1	PQLT2D2A	TRANSFORMER	1		
		IC1	PQVIBA8205F	IC	1	T2	PQLT8D2A	TRANSFORMER	1
		IC2	PQVIMC34119M	IC	1				
		IC3	PQVINJM4558M	IC	1	T201	PQLT9Z7A	TRANSFORMER	1
		IC101	PQVILC73721M	IC	1			(VARIABLE RESISTOR)	
		IC102	PQVIBA6566F	IC	1	VR1	PQVAL204B24A	VOLUME CONTROL, 20KΩ (B)	S 1
		IC103	PQVISV7860SG	IC	1			(CERAMIC FILTER)	
		Q3	2SA1626	TRANSISTOR(SI)	1	X1	PQVBT3.58G8	CERAMIC FILTER	1
		Q4	2SD662B	TRANSISTOR(SI)	1			(CAPACITORS)	
Q5	PQVTDTC143E	TRANSISTOR(SI)	1	C1	ECQE2105KF	1	1		
Q6	PQVTDTA114YU	TRANSISTOR(SI)	1	C2	ECEA1HU220	22	1		
Q11	2SD1819A	TRANSISTOR(SI)	S 1	C4	PQCUV1H682KB	0.0068	1		
Q12	PQVTDTC143E	TRANSISTOR(SI)	1	C5, 6	ECEA1HKS010	1	2		
Q13, 14	2SD1819A	TRANSISTOR(SI)	S 2	C7	PQCUV1H821JC	820P	1		
Q15	PQVTDTC143E	TRANSISTOR(SI)	1	C11	PQCUV1C224ZF	0.22	1		
				C12	PQCUV1E104MD	0.1	1		
				C13	PQCUV1H101JC	100P	1		

Ref. No.	Part No.	Value	Pcs	Ref. No.	Part No.	Value	Pcs
C14	PQCUV1E104MD	0.1	1	R7	PQ4R10XJ393	39K	1
C15	PQCUV1H272KB	0.0027	1	R8	PQ4R10XJ562	5.6K	1
C16	ECEA1CKS100	10	1	R9	PQ4R10XJ000	0	1
C17, 18	ECEA1AU101	100	S 2				1
C20	ECEA1HKS010	1	1	R10	PQ4R10XJ104	100K	1
C21	PQCUV1H102J	0.001	1	R11	PQ4R10XJ105	1M	1
C22	ECEA1HKS022	0.22	1	R12	PQ4R10XJ472	4.7K	1
C23	PQCUV1E104MD	0.1	1	R14	PQ4R10XJ683	68K	1
C25	PQCUV1C224ZF	0.22	1	R15	PQ4R10XJ564	560K	1
C26	PQCUV1E104MD	0.1	1	R17	PQ4R10XJ683	68K	1
C27	PQCUV1E104MD	0.1	1	R18	PQ4R10XJ472	4.7K	1
C30	PQCUV1H332KB	0.0033	1				1
C31	PQCUV1H103KB	0.01	1	R20	PQ4R10XJ182	1.8K	1
C102	ECEA1HKS047	0.47	1	R22	PQ4R10XJ222	2.2K	1
C103	PQCUV1C823KB	0.082	1	R23	PQ4R10XJ102	1K	1
C104	PQCUV1E153MD	0.015	1	R24	PQ4R10XJ103	10K	1
C105	PQCUV1H682KB	0.0068	1	R25	PQ4R10XJ821	820	1
C106	PQCUV1H471JC	470P	1	R26	PQ4R10XJ821	820	1
C107	PQCUV1E333MD	0.033	1	R27	PQ4R10XJ562	5.6K	1
C108	PQCUV1E333MD	0.033	1	R28	PQ4R10XJ223	22K	1
C109	PQCUV1H471JC	470P	1				1
C110	ECEA1CKS220	22	1	R30	PQ4R10XJ473	47K	1
C111	ECEA1CKS100	10	1	R31	PQ4R10XJ473	47K	1
C112, 113	ECEA1HKS4R7	4.7	S 2	R35	PQ4R10XJ474	470K	1
C114	PQCUV1H103KB	0.01	1	R36	PQ4R10XJ470	47	1
C121, 122	ECEA1HKS4R7	4.7	S 2	R37	PQ4R10XJ334	330K	1
C123	ECEA1AU221	220	S 1				1
C126	ECEA1HKS010	1	1	R40	PQ4R10XJ103	10K	1
C131	PQCUV1H103KB	0.01	1	R41	PQ4R10XJ000	0	1
C132	PQCUV1E104MD	0.1	1	R42	PQ4R10XJ103	10K	1
C133	PQCUV1E104MD	0.1	1	R43	PQ4R10XJ103	10K	1
C135	PQCUV1E104MD	0.1	1	R45	PQ4R10XJ103	10K	1
C136	PQCUV1E104MD	0.1	1	R48	PQ4R10XJ101	100	1
C139	PQCUV1H103KB	0.01	1	R49	PQ4R10XJ104	100K	1
C140	PQCUV1H101JC	100P	1				1
C141	PQCUV1H103KB	0.01	1	R50	PQ4R10XJ000	0	1
C143	ECEA1AU221	220	S 1	R51	PQ4R10XJ102	1K	1
C145	ECEA1HKS4R7	4.7	S 1	R52	PQ4R10XJ000	0	1
C147	PQCUV1H183MD	0.018	S 1	R53	PQ4R10XJ473	47K	1
C150	PQCUV1H103KB	0.01	1				1
C151	PQCUV1H103KB	0.01	1	R102	PQ4R10XJ222	2.2K	1
C152	PQCUV1H471JC	470P	1	R103	PQ4R10XJ102	1K	1
C155-162	PQCUV1H101JC	100P	8	R104	PQ4R10XJ470	47	1
C163	PQCUV1C224ZF	0.22	1	R105	PQ4R10XJ471	470	1
C165	PQCUV1E104MD	0.1	1	R106	PQ4R10XJ103	10K	1
C166	PQCUV1H102J	0.001	1	R109, 110	PQ4R10XJ153	15K	2
C167	PQCUV1H682KB	0.0068	1				1
C201	ECEA1AU101	100	S 1	R111	PQ4R10XJ204	200K	1
C202, 203, 204	PQCUV1H103KB	0.01	3	R112	PQ4R10XJ473	47K	1
C205	ECEA1HKS4R7	4.7	S 1	R113	PQ4R10XJ222	2.2K	1
C206, 209	PQCUV1H105JC	1	2	R114	ERDS1TJ560	56	1
C210	PQCUV1E104MD	0.1	1	R115	PQ4R10XJ103	10K	1
C210A	ECST1AX106	10	1	R118	PQ4R10XJ222	2.2K	1
C350	PQCUV1E104MD	0.1	1				1
		(RESISTORS)		R122	PQ4R10XJ271	270	1
J102	PQ4R10XJ000	0	2	R123	PQ4R10XJ000	0	1
J103	PQ4R18XJ000	0	1	R125	PQ4R10XJ104	100K	1
R1	ERDS1TJ622	6.2K	1	R126	PQ4R10XJ000	0	1
R2	PQ4R10XJ102	1K	1	R127	PQ4R10XJ155	1.5M	1
R3	PQ4R10XJ000	0	1	R128	PQ4R10XJ155	1.5M	1
R4	PQ4R10XJ123	12K	1	R129, 130	PQ4R10XJ104	100K	2
R5	PQ4R10XJ334	330K	1				1
R6	PQ4R10XJ184	180K	1	R131	PQ4R10XJ681	680	1
				R132	PQ4R10XJ473	47K	1
				R133	PQ4R10XJ222	2.2K	1
				R135	PQ4R10XJ104	100K	1
				R136	PQ4R10XJ472	4.7K	1
				R137	PQ4R10XJ000	0	1
				R139	PQ4R10XJ224	220K	1
							1
				R140	PQ4R10XJ472	4.7K	1
				R141	PQ4R10XJ103	10K	1
				R142	PQ4R10XJ472	4.7K	1
				R143, 144, 145	PQ4R10XJ104	100K	3
				R146, 147	PQ4R10XJ682	6.8K	2
				R148, 152	PQ4R10XJ000	0	2

Ref. No.	Part No.	Part Name & Description	Pcs	Ref. No.	Part No.	Part Name & Description	Pcs
R153	PQ4R10XJ472	4.7K	1	IMAGE BOARD PARTS			
R154	PQ4R10XJ000	0	1	PCB4	PQWP8PW1TNL	IMAGE BOARD ASS'Y (RTL)	1
R155	PQ4R10XJ824	820K	1	(ICs)			
R156	PQ4R10XJ104	100K	1	IC900	PQVICX5864MC	IC	S 1
R157	PQ4R10XJ564	560K	1	IC901	PQVI09JN003A	IC	S 1
R158	PQ4R10XJ271	270	1	IC902	PQVISN7H244S	IC	S 1
R159	PQ4R10XJ472	4.7K	1	IC903	PQVISN7H373S	IC	S 1
R161	PQ4R10XJ682	6.8K	1	IC904	PQVILC89066M	IC	1
R163	PQ4R10XJ682	6.8K	1	IC905	PQVITC7H404F	IC	1
R164	PQ4R10XJ682	6.8K	1	IC908	PQVITC7H00F	IC	S 1
R166	PQ4R10XJ104	100K	1	IC909	PQVIPD7HU04S	IC	1
R167	PQ4R10XJ104	100K	1	(COMPONENTS COMBINATIONS)			
R168	PQ4R10XJ224	220K	1	RA901	EXBF7E473JYV	RESISTOR ARRAY	1
R169	PQ4R10XJ224	220K	1	RA902	EXBF9E473JYV	RESISTOR ARRAY	1
R170	PQ4R10XJ152	1.5K	1	(CAPACITORS)			
R172	PQ4R10XJ392	3.9K	1	C901	ECEA1VKS4R7	4.7	1
R176	PQ4R10XJ102	1K	1	C903	PQCUV1H330JC	33P	1
R177	PQ4R10XJ102	1K	1	C904	PQCUV1H330JC	33P	1
R178	PQ4R10XJ104	100K	1	C906-912	PQCUV1E104MD	0.1	7
R179	PQ4R10XJ334	330K	1	C914	PQCUV1H221JC	220P	1
R180	PQ4R10XJ394	390K	1	C915	PQCUV1E104MD	0.1	1
R181	PQ4R10XJ103	10K	1	C916	PQCUV1E104MD	0.1	1
R182	PQ4R10XJ224	220K	1	(RESISTOR)			
R183	PQ4R10XJ104	100K	1	R913	PQ4R10XJ102	1K	1
R185	PQ4R10XJ224	220K	1	(CONNECTORS)			
R187	PQ4R10XJ224	220K	1	CN901, 902	PQJS10R03Z	CONNECTOR, 10P	2
R188	PQ4R10XJ104	100K	1	CN903	PQJS12X54Z	CONNECTOR, 12P	1
R189, 190	PQ4R10XJ332	3.3K	2	CN904	PQJS08R03Z	CONNECTOR, 8P	1
R191	PQ4R10XJ104	100K	1	POWER SUPPLY BOARD PARTS			
R192	PQ4R10XJ333	33K	1	PCB5	PQLP050Z	POWER SUPPLY BOARD ASS'Y (RTL)	1
R193	PQ4R10XJ682	6.8K	1	(ICs)			
R194	PQ4R10XJ222	2.2K	1	IC401	PQVIM51977P	IC	1
R195	PQ4R10XJ562	5.6K	1	IC402	PQVIUPC1093J	IC	S 1
R196	PQ4R10XJ102	1K	1	IC403	PQVINJ2360D	IC	S 1
R197	PQ4R10XJ102	1K	1	IC404, 405	PQVITA7812AP	IC	S 2
R201	PQ4R10XJ472	4.7K	1	(TRANSISTORS)			
R202	PQ4R10XJ223	22K	1	Q401	2SK1574	TRANSISTOR(SI)	1
R203	PQ4R10XJ471	470	1	Q404	PQVTDTC143XS	TRANSISTOR(SI)	1
R205	PQ4R10XJ102	1K	1	Q405	2SJ176	TRANSISTOR(SI)	1
R300	PQ4R10XJ000	0	1	Q406	2SD1266	TRANSISTOR(SI)	1
R310	PQ4R10XJ104	100K	1	(DIODES)			
R311	PQ4R10XJ000	0	1	D401	PQVDD3SBA40S	DIODE(SI)	△ 1
R315	PQ4R10XJ223	22K	1	D402	PQVD1JU41	DIODE(SI)	1
R316	PQ4R10XJ103	10K	1	D403	PQVD1GU42	DIODE(SI)	1
R317	PQ4R10XJ473	47K	1	D404	PQVD1GU42	DIODE(SI)	1
R318	PQ4R10XJ124	120K	1	D405	PQVDD10LC20U	DIODE(SI)	1
(JACK, CONNECTORS & OTHER)			1	D407	PQVD0R8DU41	DIODE(SI)	1
H/S JACK	PQJJ1TB18Z	HANDSET JACK	1	D408	PQVD1GU42	DIODE(SI)	1
CN1	PQJS9X54Z	CONNECTOR, 9P	1	D411	PQVDAK04	DIODE(SI)	1
CN2	PQJS13X54Z	CONNECTOR, 13P	1	ZD401	MA4270	DIODE(SI)	1
CN3	PQJP2D70Y	CONNECTOR, 2P	1	ZD402	MA4062	DIODE(SI)	1
CN4	PQJP06A14Z	CONNECTOR, 6P	1	(FUSES)			
CN101	PQJS9X54Z	CONNECTOR, 9P	1	F401	PQBA1C50NBKL	FUSE	△ 1
CN102	PQJS13X54Z	CONNECTOR, 13P	1	F402	PQBA1K31NMA	FUSE	1
CN103	PQJS18R02Z	CONNECTOR, 18P	1				
CN104	PQJS08R02Z	CONNECTOR, 8P	1				
E1	PQHX10069Z	SHEET	1				

